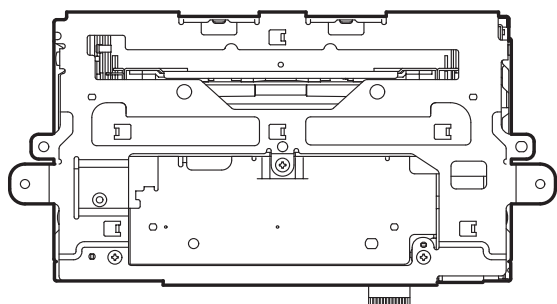


# Service Manual



NISSAN Automobile Genuine  
6-disc CD/MP3/WMA Autochanger  
AM/FM Radio Stereo

Model **PP-2665D-A**  
(Genuine No. 28185 AC705)

## SPECIFICATIONS

### Radio section

Tuning system: PLL frequency synthesizer system  
Receive range: AM 530kHz to 1,710kHz  
FM 87.75MHz to 107.9MHz  
Intermediate frequency: AM 450kHz  
FM 10.7MHz  
Quieting sensitivity: AM Less than 38dBu(at 20dB S/N)  
FM Less than 15dBu(at 30dB S/N)  
Separation: FM 22+5/-7dB(1kHz)  
Auto tuning stop sensitivity:  
AM 42+/-6dBu(603kHz)  
39+/-6dBu(999/1,404kHz)  
FM 32+/-6dBu

### CD section

Mechanism: 6-disc CD autochanger  
Disc: 12cm disc  
Format: CD-DA,MP3,WMA  
Separation: More than 50dB(1kHz,20kHz  
L.P.F.)  
S/N ratio: More than 74dB(1kHz JIS-A)  
Distortion: Less than 0.4%(20kHz L.P.F.)

### General

Load impedance: 300 ohm/4ch  
Power output: 6V x4  
Power supply voltage: DC13.2V(10.8V to 15.6V)  
Negative ground  
Back-up consumption: Less than 0.5mA  
Dimensions(mm): 180(W) x 106.4(H) x 167(D)  
Weight: Approx. 3.5kg

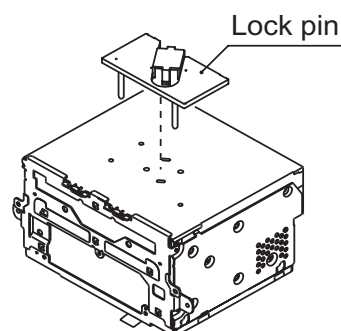
## COMPONENTS

### PP-2665D-A

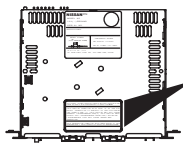
1. Main unit ----- 1

## NOTE

- \* Specifications and design are subject to change without notice for further improvement.
- \* We cannot supply PWB with component parts in principle. When a circuit on PWB has failure, please repair it by component parts base. Parts which are not mentioned in service manual are not supplied.
- \* This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.
- \* In case that the main unit or the CD changer mechanism is transported for repair, the lock pin(966-0653-00) must be set to fix the mechanism assy.



## CAUTIONS



Top view of the unit

This product includes technology owned by Microsoft Corporation and cannot be used or distributed without a license from MSLGP.

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE, AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRABLE OPERATION.

THIS PRODUCTION COMPLIES WITH DHHS RULES 21 CFR SUBCHAPTER J APPLICABLE AT DATE OF MANUFACTURE.

Guide label

## To engineers in charge of repair or inspection of our products.

Before repair or inspection, make sure to follow the instructions so that customers and Engineers in charge of repair or inspection can avoid suffering any risk or injury.

### 1. Use specified parts.

The system uses parts with special safety features against fire and voltage. Use only parts with equivalent characteristics when replacing them.

The use of unspecified parts shall be regarded as remodeling for which we shall not be liable. The onus of product liability (PL) shall not be our responsibility in cases where an accident or failure is as a result of unspecified parts being used.

### 2. Place the parts and wiring back in their original positions after replacement or re-wiring.

For proper circuit construction, use of insulation tubes, bonding, gaps to PWB, etc, is involved. The wiring connection and routing to the PWB are specially planned using clamps to keep away from heated and high voltage parts. Ensure that they are placed back in their original positions after repair or inspection.

If extended damage is caused due to negligence during repair, the legal responsibility shall be with the repairing company.

### 3. Check for safety after repair.

Check that the screws, parts and wires are put back securely in their original position after repair. Ensure for safety reasons there is no possibility of secondary problems around the repaired spots.

If extended damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 4. Caution in removal and making wiring connection to the parts for the automobile.

Disconnect the battery terminal after turning the ignition key off. If wrong wiring connections are made with the battery connected, a short circuit and/or fire may occur. If extensive damage is caused due to negligence of repair, the legal responsibility shall be with the repairing company.

### 5. Cautions regarding chips.

Do not reuse removed chips even when no abnormality is observed in their appearance. Always replace them with new ones. (The chip parts include resistors, capacitors, diodes, transistors, etc). The negative pole of tantalum capacitors is highly susceptible to heat, so use special care when replacing them and check the operation afterwards.

Use of controls, adjustment, or performance of procedures other than those specified herein, may result in hazardous radiation exposure.

The compact disc player should not be adjusted or repaired by anyone except properly qualified service personnel.

### 6. Cautions in handling flexible PWB

Before working with a soldering iron, make sure that the iron tip temperature is around 270°C. Take care not to apply the iron tip repeatedly (more than three times) to the same patterns. Also take care not to apply the tip with force.

### 7. Turn the unit OFF during disassembly and parts replacement. Recheck all work before you apply power to the unit.

### 8. Cautions in checking that the optical pickup lights up.

The laser is focused on the disc reflection surface through the lens of the optical pickup. When checking that the laser optical diode lights up, keep your eyes more than 30cms away from the lens. Prolonged viewing of the laser within 30cms may damage your eyesight.

### 9. Cautions in handling the optical pickup

The laser diode of the optical pickup can be damaged by electrostatic charge caused by your clothes and body. Make sure to avoid electrostatic charges on your clothes or body, or discharge static electricity before handling the optical pickup.

#### 9-1. Laser diode

The laser diode terminals are shorted for transportation in order to prevent electrostatic damage. After replacement, open the shorted circuit. When removing the pickup from the mechanism, short the terminals by soldering them to prevent this damage.

#### 9-2. Actuator

The actuator has a powerful magnetic circuit. If a magnetic material is put close to it, its characteristics will change. Ensure that no foreign substances enter through the ventilation slots in the cover.

#### 9-3. Cleaning the lens

Dust on the optical lens affects performance. To clean the lens, apply a small amount of isopropyl alcohol to lens paper and wipe the lens gently.

## ADJUSTMENTS

Item	Procedure	Measuring instrument
Diversity	<ol style="list-style-type: none"> <li>1. Turn off the unit, and continue pressing "DISP" button for several seconds. (An antenna input was set main channel, and "MA" appears in the display.)</li> <li>2. Set the volume to minimum.</li> <li>3. Input a 98.1MHz/26dBu(1kHz,30%MOD) signal.</li> <li>4. Connect a digital tester to TP101, and adjust VR101 so that the reading of the digital tester becomes "high" from "low" exactly.</li> <li>5. Set the SSG output to 22dBu, and confirm the reading of TP101 becomes "high" from "low" within 3 seconds.</li> <li>6. Set the SSG output to 30dBu, and confirm the voltage range of TP101 is 10V from 2V.</li> <li>7. Set the SSG output to 20dBu, and confirm the voltage of TP101 becomes less than 1.0V within 5 seconds.</li> </ol>	SSG Digital tester Oscilloscope
Noise Convergence	<ol style="list-style-type: none"> <li>1. Set an antenna input to main channel.</li> <li>2. Input a 98.1MHz/55dBu(1kHz,30%MOD) signal, and set the output power of the unit to 1.4V(= 0dB).</li> <li>3. Adjust VR102 so that the noise level becomes -22dB.</li> </ol>	SSG Digital tester

### Checking the connection with " Switch-panel "

When a switch-panel is correctly connected with the main unit, " ES-RETURN " terminal(pin 3) of a microcomputer(IC202) is " low ". When a switch-panel is incorrectly connected with the main unit, "ES-RETURN" line is cut, and BEEP sounds.

## EXPLANATION OF IC

052-3161-50 M30624MGA-600GP System Controller

### Terminal Description

pin 1: WAKE UP	:IN: Wake up signal input.	pin 32: NAVI ON	:IN: NAVI ON signal input.
pin 2: ACC ON	:O: ACC ON signal output.	pin 33: ES TX	:O: Escutcheon serial data output.
pin 3: ES RETURN	:IN: The flexible PWB connection OK flag input.	pin 34: ES RX	:IN: Escutcheon serial data input.
pin 4: NU	: - : Not in use.	pin 35: NDS A/C SEL	:O: NDS A/C selection signal output.
pin 5: NU	: - : Not in use.	pin 36: NDS A/C REQ 2	:IN: The request signal input from NDS A/C 2.
pin 6: BYTE	:IN: The data length selection(8bit/16bit).	pin 37: NDS A/C REQ 1	:IN: The request signal input from NDS A/C 1.
pin 7: CN VSS	:IN: Connect to VSS.	pin 38: NDS A/C A SEL	:O: The audio signal selection command output for NDS A/C.
pin 8: TEST	:IN: For the test.	pin 39: FLASH EPM	:O: FLASH EPM.
pin 9: NU	: - : Not in use.	pin 40: EEP ROM DO	:O: The serial data output to the EEP-ROM.
pin 10: RESET	:IN: Reset signal input.	pin 41: EEP ROM CK	:O: The clock pulse output to the EEP-ROM.
pin 11: X out	:O: Crystal connection.	pin 42: EEP ROM DI	:IN: The serial data input from the EEP-ROM.
pin 12: GND	: - : Ground.	pin 43: EEP ROM CE	:O: The chip enable signal output to the EEP-ROM.
pin 13: X IN	:IN: Crystal connection.	pin 44: FLASH CE	:IN: The chip enable signal input for the flash memory.
pin 14: VDD	: - : Positive voltage supply.	pin 45: CD ON	:O: CD ON signal output.
pin 15: NMI	:IN: Nonmaskable interrupt.	pin 46: AUX REQ	:O: AUX request signal output.
pin 16: BU DET	:IN: Backup detection signal input.	pin 47: AUX ON	:IN: AUX ON signal input.
pin 17: ACC DET	:IN: ACC detection signal input.	pin 48: COMBI ON	:O: Combi ON flag output.
pin 18: TEL ON	:IN: Telephone ON signal input.	pin 49: E VOL DO	:O: Serial data output to the volume IC.
pin 19: ILL DET	:IN: Illumination ON signal input.	pin 50: E VOL CE	:O: Chip enable signal output to the volume IC.
pin 20: AMP ON	:O: Audio power amplifier ON signal output.	pin 51: Power IC SDA	:O: The serial data output to Power IC.
pin 21: SYS ON	:O: System ON signal output.	pin 52: Power IC CLK	:O: The clock pulse output to Power IC.
pin 22: VFD ON	:O: VFD ON signal output.	pin 53: Power IC Stndb	:O: The standby signal output to Power IC.
pin 23: NU	: - : Not in use.	pin 54: Power IC Diag	:IN: Power IC Diagnosis signal input.
pin 24: BEEP out	:O: Beep out.	pin 55: NU	: - : Not in use.
pin 25: TEL/NAVI MUTE	:O: The muting signal output for the telephone and the navigation.	pin 56: NU	: - : Not in use.
pin 26: 6-CD REQ	:IN: The request signal input from the 6CD-Changer.	pin 57: NU	: - : Not in use.
pin 27: 6-CD RX	:IN: The serial data input for 6CD-Changer.	pin 58: NU	: - : Not in use.
pin 28: 6-CD TX	:O: The serial data output for 6CD-Changer.	pin 59: NU	: - : Not in use.
pin 29: NDS/FLASH TX	:O: The serial data output for NDS and Flash memory.	pin 60: VDD	: - : Positive voltage supply.
pin 30: NDS/FLASH RX	:IN: The serial data input for NDS and Flash memory.	pin 61: NU	: - : Not in use.
pin 31: FLASH CLK	:O: The clock pulse output for the flash memory.	pin 62: GND	: - : Ground.
		pin 63: PLL CE	:O: The chip enable signal output to the PLL IC.
		pin 64: PLL CLK	:O: The clock pulse output to the PLL IC.
		pin 65: PLL DO	:O: Serial data output to the PLL IC.
		pin 66: PLL DI	:IN: Serial data input from the PLL IC.

pin 67: ST/TWEET : I/O: Outputs "L" at AM 900kHz receiving. Inputs "L" at FM stereo receiving.

pin 68: NU : - : Not in use.

pin 69: NU : - : Not in use.

pin 70: RDS DATA : IN: RDS serial data input.

pin 71: RDS CLK : O : RDS clock pulse output.

pin 72: Speed Pulse : IN: Speed pulse input.

pin 73: MD LD : IN: Disc-in signal input from the MD mechanism.

pin 74: FAN ON : O : The fan on signal output.

pin 75: MD 5V : O : The power ON signal output for the MD mechanism.

pin 76: MD WP : O : Wake up signal output to the MD mechanism.

pin 77: MD CS : O : The chip selection signal output to the MD mechanism.

pin 78: MD SCK : O : The clock pulse output to the MD mechanism.

pin 79: MD SO : O : Serial data output to the MD mechanism.

pin 80: MD RESET : O : Reset pulse output to the MD mechanism.

pin 81: MD SRQ : IN: Request signal input from the MD mechanism.

pin 82: MD SI : IN: Serial data input from the MD mechanism.

pin 83: AREA 1 : IN: The destination setting input.

pin 84: AREA 2 : IN: The destination setting input.

pin 85: 160W / BOSE : IN: The initial setting terminal. Low = BOSE.

pin 86: CD CONNECT : IN: CD connection check signal input.

pin 87: NU : - : Not in use.

pin 88: NU : - : Not in use.

pin 89: NU : - : Not in use.

pin 90: NU : - : Not in use.

pin 91: NU : - : Not in use.

pin 92: HAND REM A : IN: Steering wheel remote controller input.

pin 93: HAND REM B : IN: Steering wheel remote controller input.

pin 94: A VSS : - : Negative voltage supply for analog section.

pin 95: S METER : IN: The input terminal of internal A/D converter to monitor the radio field strength.

pin 96: Vref : - : Reference voltage.

pin 97: A VDD : - : Positive voltage supply for analog section.

pin 98: NU : - : Not in use.

pin 99: NU : - : Not in use.

pin100: NU : - : Not in use.

pin 23: NDS TX : O : NDS serial data output.

pin 24: T DATA : O : The display data output for the test mode indication.

pin 25: T CLK : O : The test clock output.

pin 26: Flash Write Set : IN: The flash memory writing mode setting input.

pin 27: DSP V-BUS CS : O : DSP V-BUS Chip Select.

pin 28: DSP V-BUS DO : O : DSP V-BUS Data Output.

pin 29: DSP V-BUS DI : IN: DSP V-BUS Data Input.

pin 30: DSP V-BUS CK : O : DSP V-BUS Clock output.

pin 31: V-BUS SRQ : IN: V-BUS Slave request.

pin 32: SW 1 : IN: The switch signal input.

pin 33: SW 2 : IN: The switch signal input.

pin 34: EPM : IN: The flash memory control setting.

pin 35: PT 2 : IN: The photo sensor signal input.

pin 36: PT 5 : IN: The photo sensor signal input.

pin 37: PT 4 : IN: The photo sensor signal input.

pin 38: PT 3 : IN: The photo sensor signal input.

pin 39: ROM Correct : IN: ROM correction control signal input.

pin 40: PT 6 : IN: The photo sensor signal input.

pin 41: SW 9V : O : 9V power supply control.

pin 42: PT 1 : IN: The photo sensor signal input.

pin 43: LM CCW : O : Loading motor control output.

pin 44: LM CW : O : Loading motor control output.

pin 45: VM CCW : O : V motor control output.

pin 46: VM CW : O : V motor control output.

pin 47: MM CCW : O : Mode motor control output.

pin 48: MM CW : O : Mode motor control output.

pin 49: D MUTE : O : Digital mute signal output.

pin 50: DSP RESET : O : Reset signal output to the DSP IC.

pin 51: DSP Wakeup : O : DSP wakeup command output.

pin 52: TEST 4 : IN: For the test.

pin 53: TEST 3 : IN: For the test.

pin 54: TEST 2 : IN: For the test.

pin 55: TEST 1 : IN: For the test.

pin 56: EEP DI : IN: The serial data input from the EEP-ROM.

pin 57: EEP DO : O : The serial data output to the EEP-ROM.

pin 58: EEP CLK : O : The clock pulse output to the EEP-ROM.

pin 59: EEP CE : O : The chip enable signal output to the EEP-ROM.

pin 60: OEM SW 1 : IN: The destination setting.

pin 61: OEM SW 2 : IN: The destination setting.

pin 62: A MUTE : O : The audio mute signal output.

pin 63: NU : - : Not in use.

pin 64: NU : - : Not in use.

pin 65: NU : - : Not in use.

pin 66: SHUT : IN: The shutter signal input.

pin 67: P ON 1 : O : Power ON signal output.

pin 68: NU : - : Not in use.

pin 69: NU : - : Not in use.

pin 70: NU : - : Not in use.

pin 71: NU : - : Not in use.

pin 72: NU : - : Not in use.

pin 73: NU : - : Not in use.

pin 74: NU : - : Not in use.

pin 75: A VSS : - : Negative voltage supply for analog section.

pin 76: NU : - : Not in use.

pin 77: Vref : - : Reference voltage.

pin 78: A VCC : - : Positive voltage supply for the internal analog section.

pin 79: T CLK : O : "Test mode display" clock output.

pin 80: NU : - : Not in use.

052-5061-01 M30621MCM-4S5GP Mechanism Controller

[NOTE] This IC is compatible with 052-5061-00.

#### Terminal Description

pin 1: HSSW1 : IN: L = It operates by one twice the speed of a standard.

pin 2: NU : - : Not in use.

pin 3: NU : - : Not in use.

pin 4: NU : - : Not in use.

pin 5: NU : - : Not in use.

pin 6: CN VSS : IN: Connect to VSS.

pin 7: NU : - : Not in use.

pin 8: NU : - : Not in use.

pin 9: RESET : IN: Reset signal input.

pin 10: X out : O : Crystal connection.

pin 11: VSS : - : Negative voltage supply.

pin 12: X IN : IN: Crystal connection.

pin 13: VDD : - : Positive voltage supply.

pin 14: NMI : IN: Not in use.

pin 15: NU : - : Not in use.

pin 16: ACC DET : IN: ACC detection signal input.

pin 17: BU DET : IN: Backup detection signal input.

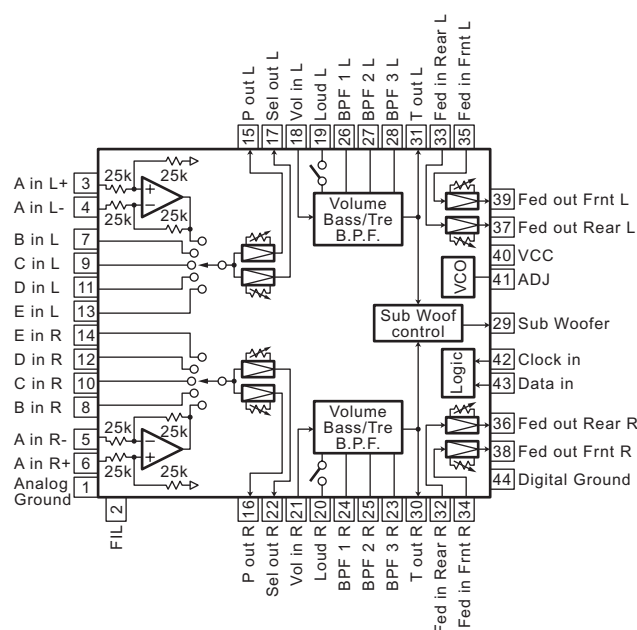
pin 18: PON 2 : O : Power ON signal output.

pin 19: NU : - : Not in use.

pin 20: NDS REQ : O : NDS request signal output.

pin 21: NU : - : Not in use.

pin 22: NDS RX : IN: NDS serial data input.



## Terminal Description

pin 1: A GND	: Analog ground.
pin 2: FIL	: VCC/2.
pin 3: A in L+	: A Non-inverted input, Left channel.
pin 4: A in L-	: A Inverted input, Left channel.
pin 5: A in R-	: A Inverted input, Right channel.
pin 6: A in R+	: A Non-inverted input, Right channel.
pin 7: B in L	: B Input, Left channel.
pin 8: B in R	: B Input, Right channel.
pin 9: C in L	: C Input, Left channel.
pin 10: C in R	: C Input, Right channel.
pin 11: D in L	: D Input, Left channel.
pin 12: D in R	: D Input, Right channel.
pin 13: E in L	: E Input, Left channel.
pin 14: E in R	: E Input, Right channel.
pin 15: P out L	: Input-gain output, Left channel.
pin 16: P out R	: Input-gain output, Right channel.
pin 17: SEL out L	: Input-gain output, Left channel.
pin 18: VOL in L	: Volume Input, Left channel.
pin 19: LOUD L	: Loudness setting, Left channel.
pin 20: LOUD R	: Loudness setting, Right channel.
pin 21: VOL in R	: Volume Input, Right channel.
pin 22: SEL out R	: Input-gain output, Right channel.
pin 23: BPF 3 R	: General-purpose BPF setting 3, Right channel.
pin 24: BPF 1 R	: General-purpose BPF setting 1, Right channel.
pin 25: BPF 2 R	: General-purpose BPF setting 2, Right channel.
pin 26: BPF 1 L	: General-purpose BPF setting 1, Left channel.
pin 27: BPF 2 L	: General-purpose BPF setting 2, Left channel.
pin 28: BPF 3 L	: General-purpose BPF setting 3, Left channel.
pin 29: Sub Woofer	: Sub-woofer output.
pin 30: Tone out R	: Tone controller output, Right channel.
pin 31: Tone out L	: Tone controller output, Left channel.
pin 32: Fed in Rear R	: Right channel Rear Input.
pin 33: Fed in Rear L	: Left channel Rear Input.
pin 34: Fed in Frnt R	: Right channel Front Input.
pin 35: Fed in Frnt L	: Left channel Front Input.
pin 36: Fed out Rea R	: Right channel Rear output.
pin 37: Fed out Rea L	: Left channel Rear output.
pin 38: Fed out Frn R	: Right channel Front output.
pin 39: Fed out Frn L	: Left channel Front output.
pin 40: VCC	: Power supply.
pin 41: ADJ	: VCO frequency adjust.
pin 42: CLK	: The clock pulse.
pin 43: DATA	: The serial data.
pin 44: D GND	: Digital ground.

pin 30: Tone out R	: Tone controller output, Right channel.
pin 31: Tone out L	: Tone controller output, Left channel.
pin 32: Fed in Rear R	: Right channel Rear Input.
pin 33: Fed in Rear L	: Left channel Rear Input.
pin 34: Fed in Frnt R	: Right channel Front Input.
pin 35: Fed in Frnt L	: Left channel Front Input.
pin 36: Fed out Rea R	: Right channel Rear output.
pin 37: Fed out Rea L	: Left channel Rear output.
pin 38: Fed out Frn R	: Right channel Front output.
pin 39: Fed out Frn L	: Left channel Front output.
pin 40: VCC	: Power supply.
pin 41: ADJ	: VCO frequency adjust.
pin 42: CLK	: The clock pulse.
pin 43: DATA	: The serial data.
pin 44: D GND	: Digital ground.

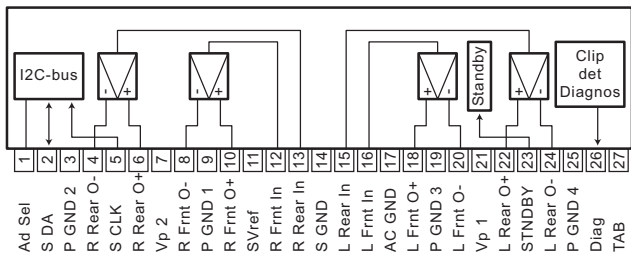
052-5062-02 MBM29DL800BA-90PFTN 8 M bit Flash Memory

[NOTE] This IC is compatible with 052-5062-01.

## Terminal Description

pin 1: Address 15	: IN: Address signal input.
pin 2: Address 14	: IN: Address signal input.
pin 3: Address 13	: IN: Address signal input.
pin 4: Address 12	: IN: Address signal input.
pin 5: Address 11	: IN: Address signal input.
pin 6: Address 10	: IN: Address signal input.
pin 7: Address 9	: IN: Address signal input.
pin 8: Address 8	: IN: Address signal input.
pin 9: NU	: - : Not in use.
pin 10: NU	: - : Not in use.
pin 11: WE	: IN: Write enable signal input.
pin 12: RESET	: IN: Reset signal input.
pin 13: NU	: - : Not in use.
pin 14: NU	: - : Not in use.
pin 15: Ready/Busy	: O : Ready/Busy flag output, H = Ready.
pin 16: Address 18	: IN: Address signal input.
pin 17: Address 17	: IN: Address signal input.
pin 18: Address 7	: IN: Address signal input.
pin 19: Address 6	: IN: Address signal input.
pin 20: Address 5	: IN: Address signal input.
pin 21: Address 4	: IN: Address signal input.
pin 22: Address 3	: IN: Address signal input.
pin 23: Address 2	: IN: Address signal input.
pin 24: Address 1	: IN: Address signal input.
pin 25: Address 0	: IN: Address signal input.
pin 26: CE	: IN: Chip enable signal input.
pin 27: VSS	: - : Negative supply voltage.
pin 28: OE	: IN: Output enable signal input.
pin 29: DQ 0	: I/O: The data input / output.
pin 30: DQ 8	: I/O: The data input / output.
pin 31: DQ 1	: I/O: The data input / output.
pin 32: DQ 9	: I/O: The data input / output.
pin 33: DQ 2	: I/O: The data input / output.
pin 34: DQ 10	: I/O: The data input / output.
pin 35: DQ 3	: I/O: The data input / output.
pin 36: DQ 11	: I/O: The data input / output.
pin 37: VCC	: - : Positive supply voltage.
pin 38: DQ 4	: I/O: The data input / output.
pin 39: DQ 12	: I/O: The data input / output.
pin 40: DQ 5	: I/O: The data input / output.
pin 41: DQ 13	: I/O: The data input / output.
pin 42: DQ 6	: I/O: The data input / output.
pin 43: DQ 14	: I/O: The data input / output.
pin 44: DQ 7	: I/O: The data input / output.
pin 45: DQ 15/A-1	: I/O: The data input/output, The Address signal input.
pin 46: VSS	: - : Negative supply voltage.
pin 47: BYTE	: IN: The data length selection (8bit/16bit).
pin 48: Address 16	: IN: Address signal input.

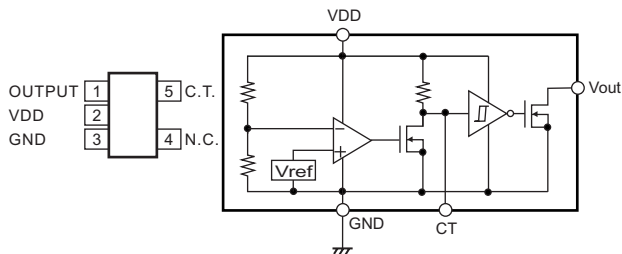
051-2055-00    TDA8593J/N3  
I2C-bus controlled Audio Power Amplifier



Terminal Description

pin 1: Ad Sel	: I2C address select.
pin 2: S DA	: I2C data input/output.
pin 3: P GND 2	: Power ground.
pin 4: R Rear Out-	: Negative right rear output.
pin 5: S CLK	: I2C clock input.
pin 6: R Rear Out+	: Positive right rear output.
pin 7: Vp2	: Power supply.
pin 8: R Frnt Out-	: Negative right front output.
pin 9: P GND 1	: Power ground.
pin 10: R Frnt Out+	: Positive right front output.
pin 11: SVR	: Half supply filter capacitor.
pin 12: R Front In	: Right front input.
pin 13: R Rear In	: Right rear input.
pin 14: S GND	: Signal ground.
pin 15: L Rear In	: Left rear input.
pin 16: L Frnt In	: Left front input.
pin 17: AC GND	: AC ground input.
pin 18: L Frnt Out+	: Positive left front output.
pin 19: P GND 3	: Power ground.
pin 20: L Frnt Out-	: Negative left front output.
pin 21: Vp1	: Power supply.
pin 22: L Rear Out+	: Positive left rear output.
pin 23: STANDBY	: Standby operating selecting.
pin 24: L Rear Out-	: Negative left rear output.
pin 25: P GND 4	: Power ground.
pin 26: Diag	: Diagnose / clip detection output.
pin 27: TAB	: Heatsink connection, must be connected to ground.

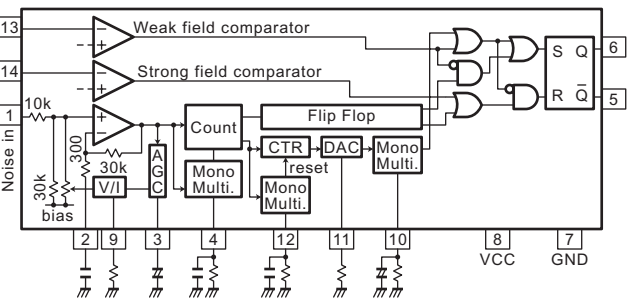
051-5445-08    BD5227G-TR    Precision Vlotage Detector 2.7V



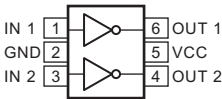
Terminal description

pin 1: OUTPUT	: N channel open drain output, positive logic.
pin 2: VDD	: Positive supply voltage.
pin 3: GND	: Ground.
pin 4: N.C.	: Not in use.
pin 5: C.T.	: Delay time capacitor.

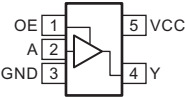
051-4617-90    LA1061M-TE-L    Antenna Switching Controller



051-7525-08    SN74LVC2GU04DCKR    Dual Inverter



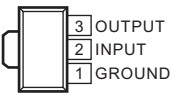
051-7526-08    SN74LVC1G126DCKR    Single 3-States Buffer



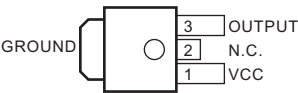
Truth table

OE in	Y out
H	=A
L	High Z

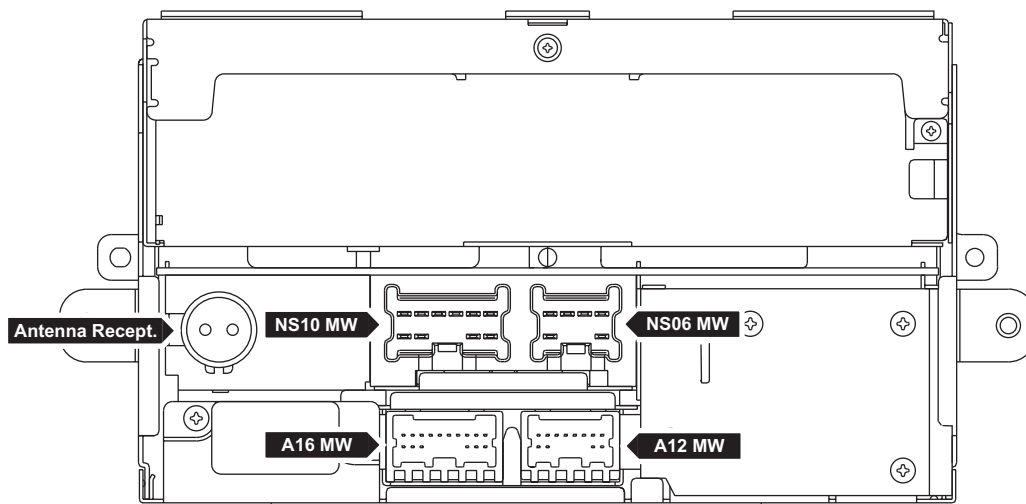
051-3332-90    NJU7222U33    Positive Voltage Regurator (3.3V)



051-3341-90    BD3931FP    Positive Voltage Regurator (5.0V)



# CONNECTIONS

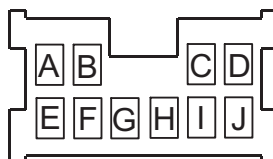


Antenna Recept.



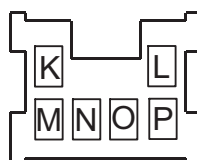
1	Main Antenna
2	Sub Antenna

NS10 MW  
(Power/Front SP)



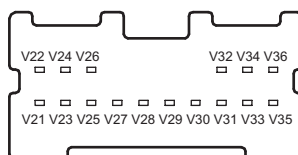
A	Front Lch(+)	F	Front Rch(-)
B	Front Rch(+)	G	ANT-ON
C	Lighting SW(+)	H	Back up
D	ACC	I	N.C.
E	Front Lch(-)	J	GND

NS06 MW  
(Rear SP)



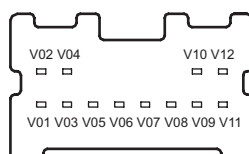
K	Amp.ON Signal	N	Rear Lch(-)
L	Rear Rch(+)	O	Rear Lch(+)
M	GND	P	Rear Rch(-)

A-16 MW  
(Remote control)



V21	N.C.	V29	REMO-GND
V22	SPEED SIG	V30	N.C.
V23	N.C.	V31	N.C.
V24	N.C.	V32	N.C.
V25	N.C.	V33	GND
V26	REMO-A	V34	NAVI IN(-)
V27	REMO-B	V35	NAVI-GND
V28	NAVI-ON	V36	NAVI IN(+)

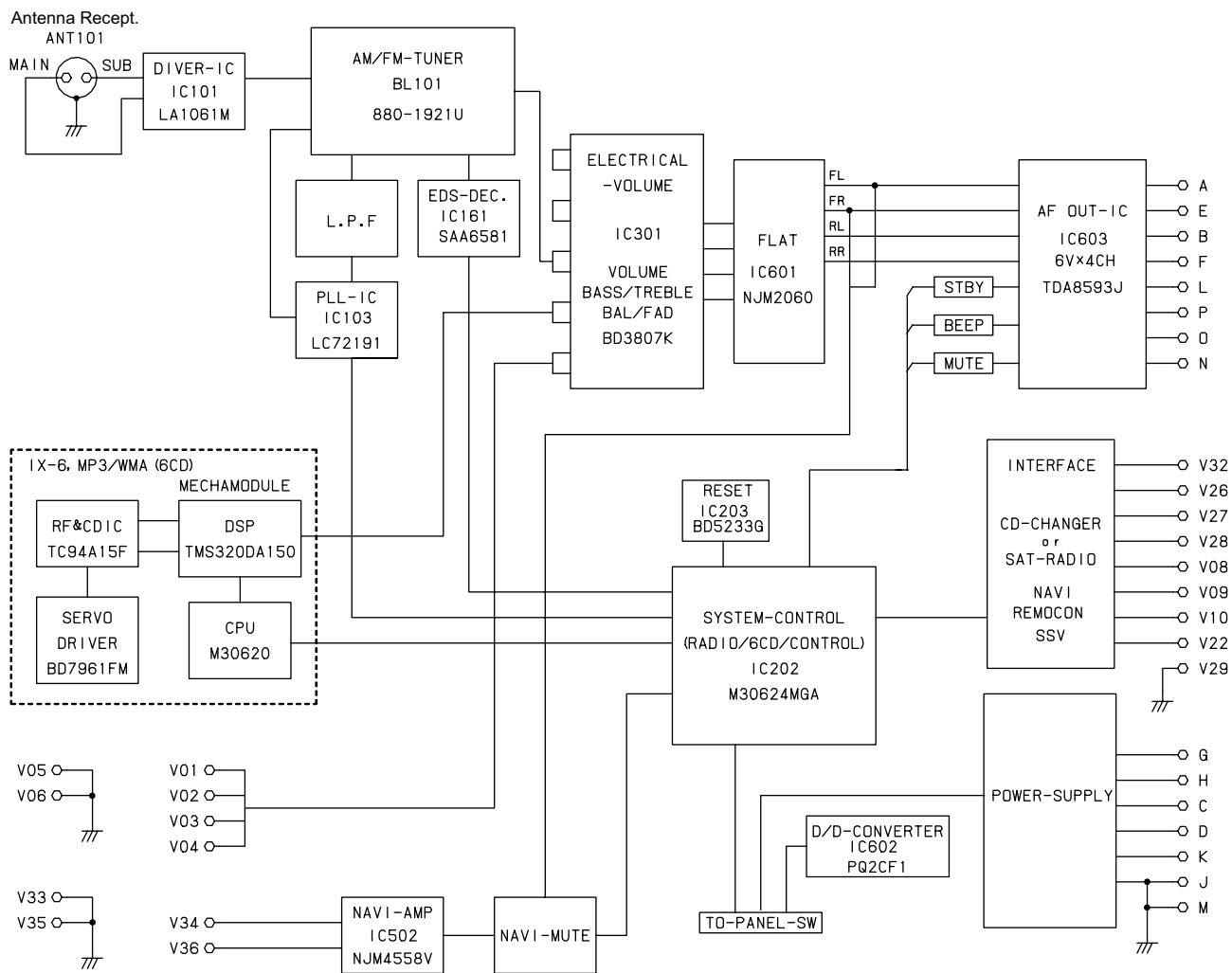
A-12 MW  
(NDS-Auto changer)



V01	CD Lch(-)	V07	N.C.
V02	CD Lch(+)	V08	REQ(CD -> Combi)
V03	CD Rch(-)	V09	RX(CD -> Combi)
V04	CD Rch(+)	V10	TX(Combi -> CD)
V05	GND	V11	N.C.
V06	Shield-GND	V12	N.C.

BLOCK DIAGRAM

Main section



NS10 MW  
(Power/Front SP)

No.	CONNECTION
A	FR.SP LH (+)
B	FR.SP RH (+)
C	LIGHTING SWITCH
D	ACC
E	FR.SP LH (-)
F	FR.SP RH (-)
G	ANT.SIGNAL
H	BACK UP
I	N.C
J	EARTH

NS06 MW  
(Rear SP)

No.	CONNECTION
K	AMP-ON
L	RR.SP RH (+)
M	EARTH
N	RR.SP LH (-)
O	RR.SP LH (+)
P	RR.SP RH (-)

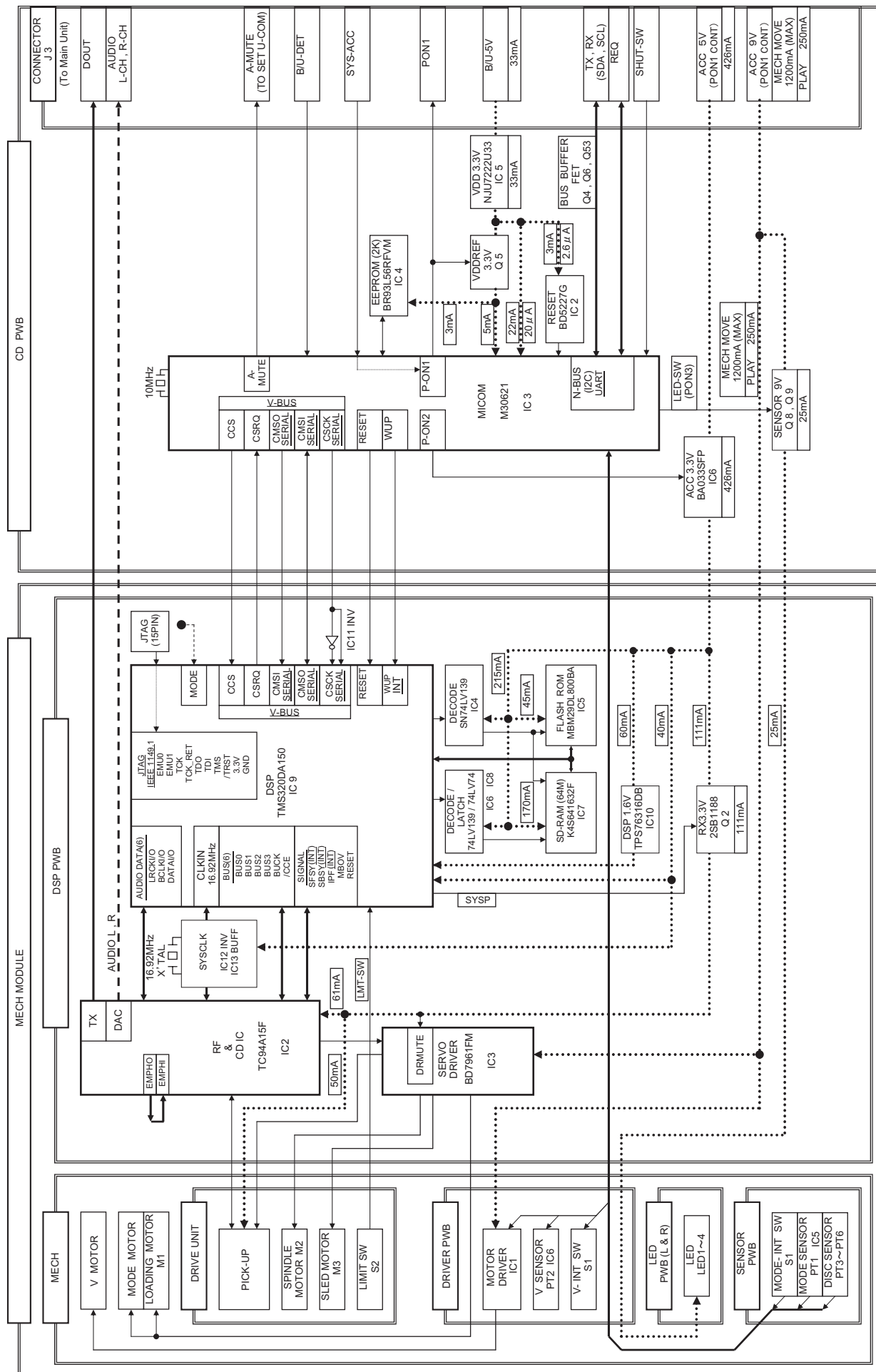
A-12 MW  
(NDS-Auto changer)

No.	CONNECTION
V01	CD LH INPUT (-)
V02	CD LH INPUT (+)
V03	CD RH INPUT (-)
V04	CD RH INPUT (+)
V05	EARTH
V06	SHIELD EARTH
V07	N.C
V08	REQ (CD-COMBI)
V09	RX (CD-COMBI)
V10	TX (COMBI-CD)
V11	N.C
V12	N.C

A-16 MW  
(Remote control)

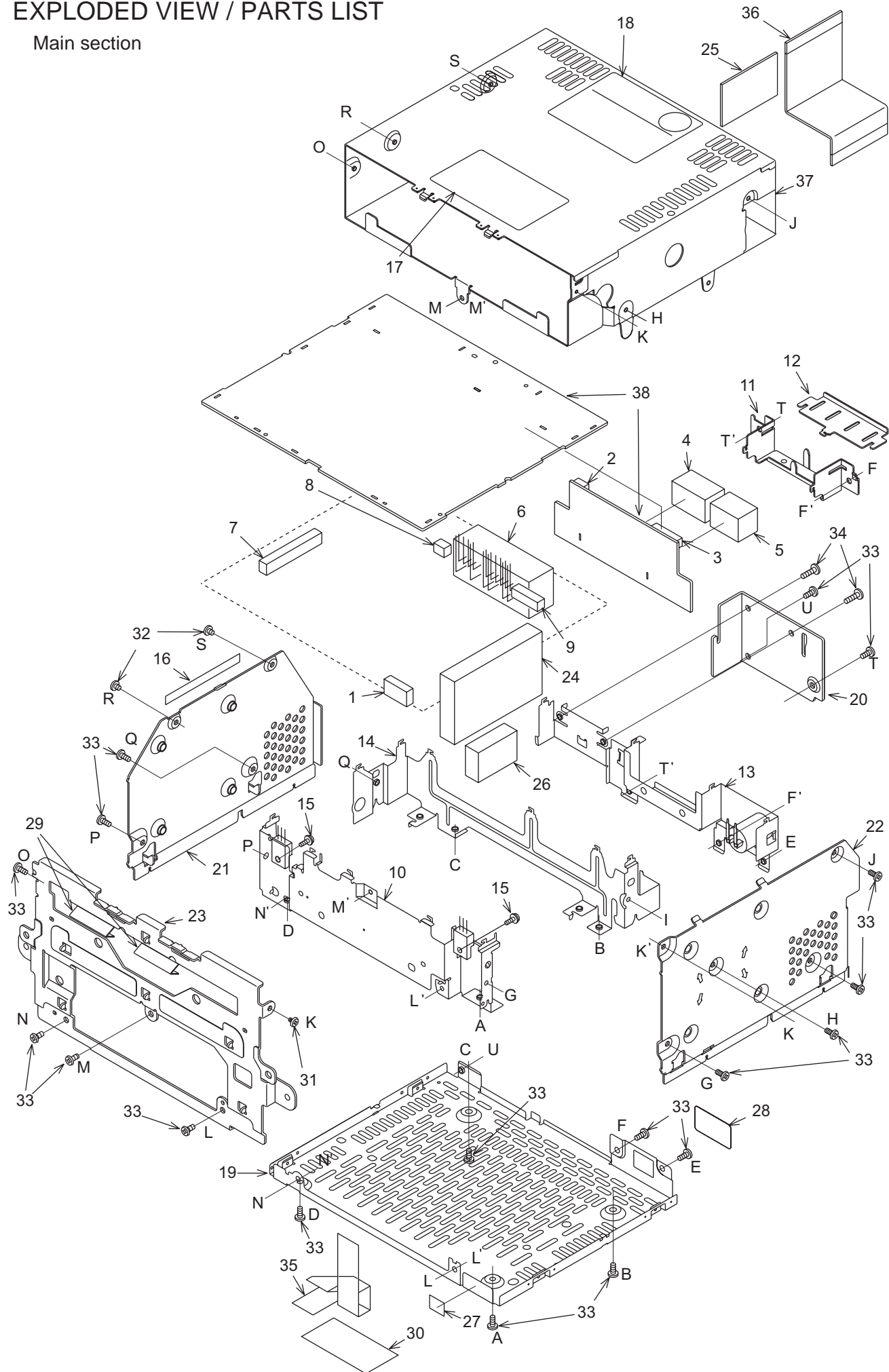
No.	CONNECTION
V21	N.C
V22	SP-SIG.
V23	N.C
V24	N.C
V25	N.C
V26	REMO-A
V27	REMO-B
V28	NAVI-ON
V29	REMO-GND
V30	N.C
V31	N.C
V32	N.C
V33	GND
V34	NAVI INPUT (-)
V35	NAVI EARTH
V36	NAVI INPUT (+)

## CD changer module section



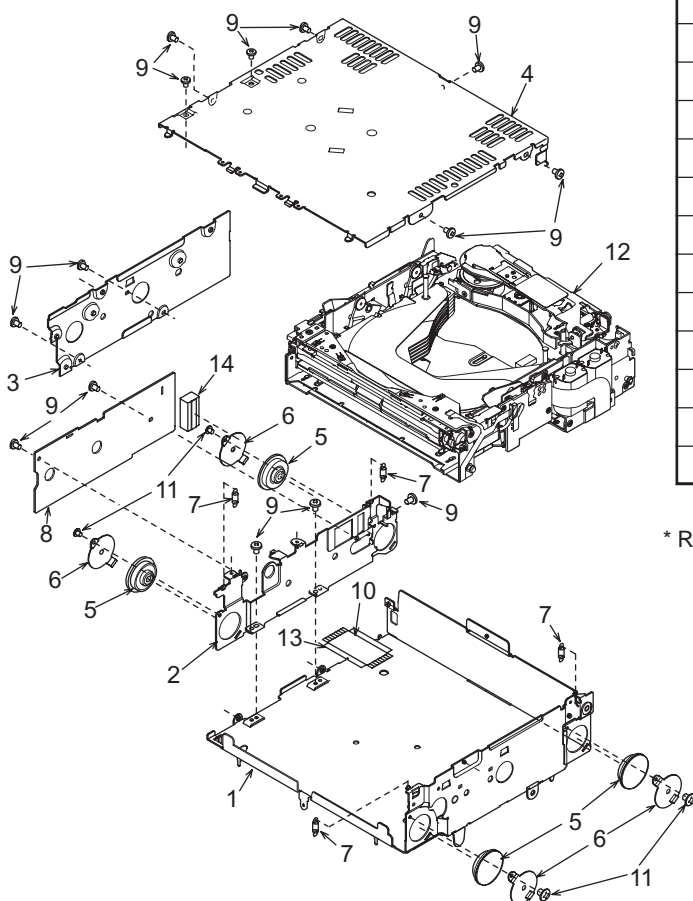
# EXPLODED VIEW / PARTS LIST

Main section



NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	074-0834-12	OUTLET SOCKET(SW PANEL)	1	20	313-1913-00	HEAT SINK	1
2	074-0898-06	OUTLET SOCKET(6P)	1	21	331-3258-02	SIDE CASE(L)	1
3	074-0898-18	OUTLET SOCKET(18P)	1	22	331-3259-02	SIDE CASE(R)	1
4	074-1013-30	OUTLET SOCKET(A-12)	1	23	331-3887-00	ES-PLATE	1
5	074-1087-12	OUTLET SOCKET(A-16)	1	24	880-1921U	TUNER PACK	1
6	074-1141-00	OUTLET SOCKET(NS10/06)	1	25	335-6788-00	MOLDED PART	1
7	074-1192-20	OUTLET SOCKET(20P)	1	26	345-5806-00	EMC-GASKET	1
8	076-0368-06	PLUG(6P)	1	27	347-3072-00	PAPER PART	1
9	076-0368-18	PLUG(18P)	1	28	347-6623-00	SPACER	1
10	309-0806-01	FRONT PLATE	1	29	347-6910-00	PROTECTOR	2
11	331-3478-01	OUTLET HOLDER	1	30	347-7429-00	PROTECT SHEET	1
12	331-3479-01	OUTLET HOLDER	1	31	714-2004-87	MACHINE SCREW(M2x4)	1
13	331-3885-10	REAR PLATE	1	32	714-2603-80	MACHINE SCREW(M2.6x3)	2
14	331-3886-00	MECH-BRKT	1	33	714-2605-81	MACHINE SCREW(M2.6x5)	18
15	716-1494-00	IT SCREW(M2.6x6)	2	34	714-2612-89	MACHINE SCREW(M2.6x12)	2
16	285-1967-00	GUIDE LABEL	1	35	816-5000-00	FLAT WIRE(SW PANEL)	1
17	285-1968-00	GUIDE LABEL	1	36	816-4007-00	FLAT WIRE(CD)	1
18	286-6515-01	SETPLATE	1	37	929-0195-83	CD-CHANG-MODULE	1
19	311-1897-00	LOWER CASE	1	38	-----	MAIN PWB	1

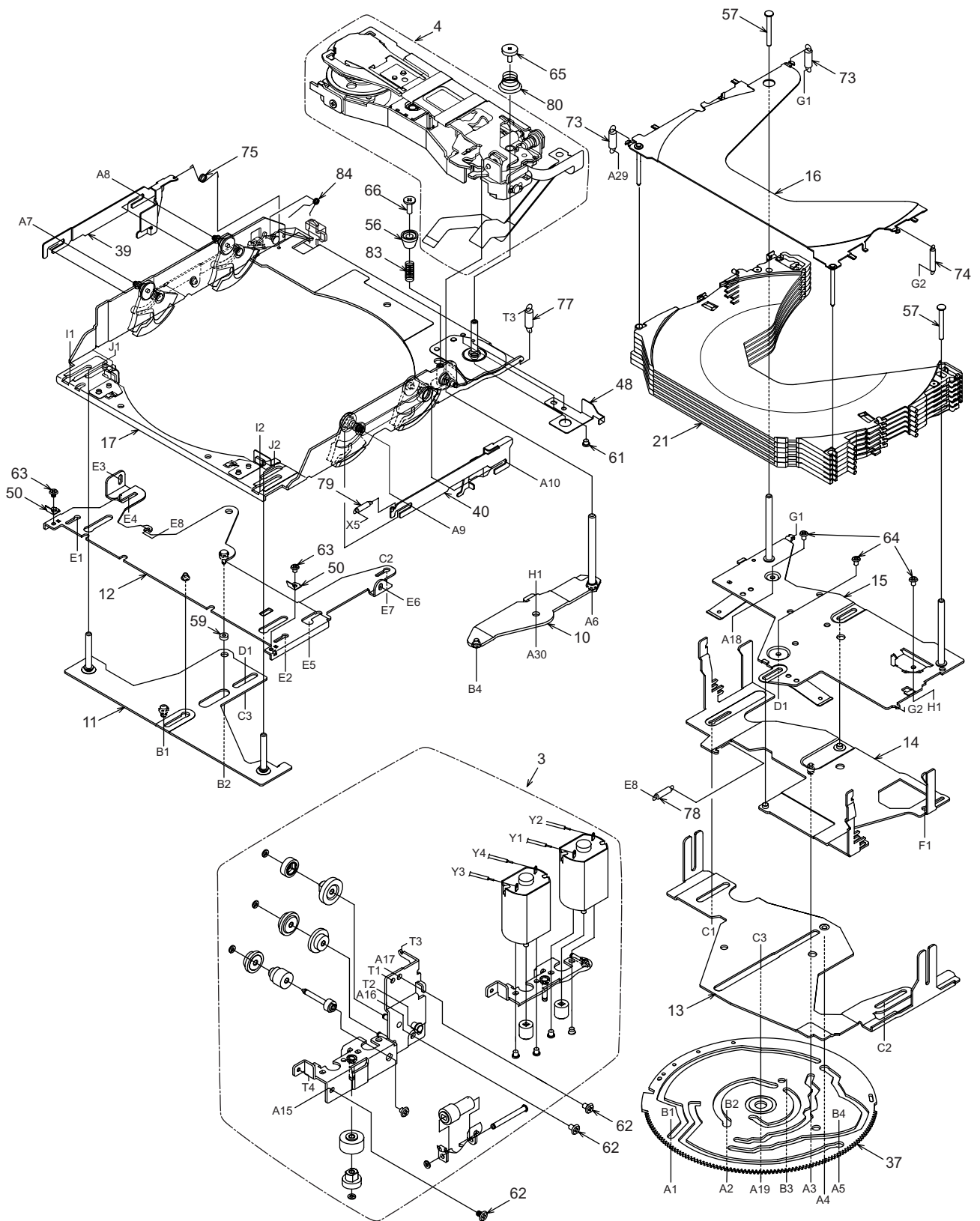
## CD changer module section



NO.	PART NO.	DESCRIPTION	Q'TY
1	311-1837-25	LOWER CASE	1
2	331-3896-22	PWB-HOLDER	1
3	305-0334-21	SIDE CASE	1
4	310-1741-27	UPPER CASE	1
5	629-0083-01	DAMPER	4
6	620-1086-20	DAMPER-H-PLT	4
7	750-3491-00	FL-SPRING	4
8	-----	CD PWB	1
9	716-1716-00	SCREW(M2x3)	14
10	039-1957-01	FPC	1
11	716-3450-00	SCREW(M1.7x2)	4
12	-----	CD CHANGER MECHANISM	1
13	347-6619-00	INSULATOR	1
14	345-8748-00	GASKET	1

\* Refer to the following page about CD changer mechanism(No.12).

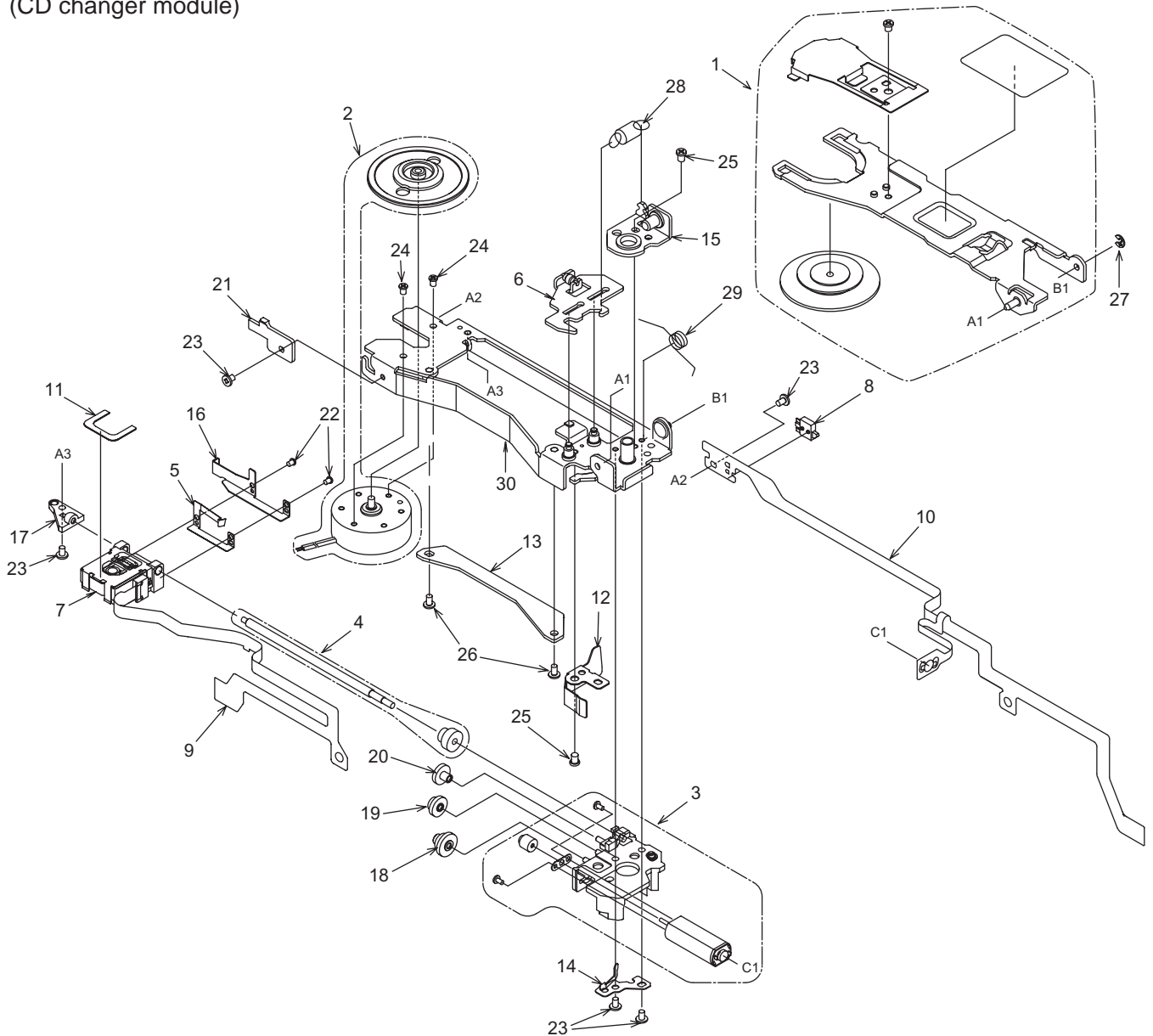
This is a detailed exploded view diagram of a mechanical assembly. The diagram shows various components arranged in their relative positions, with lines indicating their assembly paths. Key parts are labeled with numbers (e.g., 1, 2, 5, 7, 8, 19, 26, 30, 31, 32, 35, 36, 38, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100) and letters (e.g., A1, A2, A3, A4, A5, A6, A7, A8, A9, A10, A11, A12, A13, A14, A15, A16, A17, A18, A19, A20, A21, A22, A23, A24, A25, A26, A27, A28, A29, A30, B1, B2, B3, C1, D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, E1, E2, E3, E4, E5, E6, E7, E8, E9, E10, F1, F2, F3, F4, F5, F6, F7, F8, F9, F10, G1, G2, G3, G4, G5, G6, G7, G8, G9, G10, H1, H2, H3, H4, H5, H6, H7, H8, H9, H10, I1, I2, I3, I4, I5, I6, I7, I8, I9, I10, J1, J2, J3, J4, J5, J6, J7, J8, J9, J10, K1, K2, K3, K4, K5, K6, K7, K8, K9, K10, L1, L2, L3, L4, L5, L6, L7, L8, L9, L10, M1, M2, M3, M4, M5, M6, M7, M8, M9, M10, N1, N2, N3, N4, N5, N6, N7, N8, N9, N10, O1, O2, O3, O4, O5, O6, O7, O8, O9, O10, P1, P2, P3, P4, P5, P6, P7, P8, P9, P10, Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8, Q9, Q10, R1, R2, R3, R4, R5, R6, R7, R8, R9, R10, S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, T1, T2, T3, T4, T5, T6, T7, T8, T9, T10, U1, U2, U3, U4, U5, U6, U7, U8, U9, U10, V1, V2, V3, V4, V5, V6, V7, V8, V9, V10, W1, W2, W3, W4, W5, W6, W7, W8, W9, W10, X1, X2, X3, X4, X5, X6, X7, X8, X9, X10, Y1, Y2, Y3, Y4, Y5, Y6, Y7, Y8, Y9, Y10, Z1, Z2, Z3, Z4, Z5, Z6, Z7, Z8, Z9, Z10). The assembly includes a base plate (1), a motor (2), a drive shaft (3), a gear (4), a timing belt (5), a pulley (6), a frame (7), a housing (8), a cover (9), a door (10), a handle (11), a latch (12), a lock (13), a key (14), a pin (15), a bolt (16), a nut (17), a washer (18), a spring (19), a roller (20), a ball (21), a ball bearing (22), a roller bearing (23), a bush (24), a sleeve (25), a collar (26), a flange (27), a bracket (28), a support (29), a guide (30), a track (31), a rail (32), a wheel (33), a pulley (34), a sheave (35), a drum (36), a spool (37), a reel (38), a spool (39), a reel (40), a drum (41), a spool (42), a reel (43), a drum (44), a spool (45), a reel (46), a drum (47), a spool (48), a reel (49), a drum (50), a spool (51), a reel (52), a drum (53), a spool (54), a reel (55), a drum (56), a spool (57), a reel (58), a drum (59), a spool (60), a reel (61), a drum (62), a spool (63), a reel (64), a drum (65), a spool (66), a reel (67), a drum (68), a spool (69), a reel (70), a drum (71), a spool (72), a reel (73), a drum (74), a spool (75), a reel (76), a drum (77), a spool (78), a reel (79), a drum (80), a spool (81), a reel (82), a drum (83), a spool (84), a reel (85), a drum (86), a spool (87), a reel (88), a drum (89), a spool (90), a reel (91), a drum (92), a spool (93), a reel (94), a drum (95), a spool (96), a reel (97), a drum (98), a spool (99), a reel (100).



CD Changer mechanism section  
(CD changer module)

NO.	PART NO.	DESCRIPTION	Q'TY	NO.	PART NO.	DESCRIPTION	Q'TY
1	HBS-521-100	LOADING UNIT	1	48	620-1083-20	FPC-PLATE	1
2	SMA-186-100	LOADING MOTOR ASSY	1	49	620-1090-20	GAP PLATE	1
3	HBS-530-100	MOTOR PLATE SUB ASSY	1	50	620-1568-20	RATTLE PLATE-F	2
4	HBS-531-103	DRIVE UNIT	1	51	621-0640-20	V-GEAR-G	1
5	-----	DSP PWB	1	52	621-0641-21	PI-HOLDER-M	1
6	-----	DRIVER PWB	1	53	621-0656-21	PI-HOLDER-V	1
7	966-0597-25	CHASSIS ASSY	1	54	622-1622-00	SL-G-ROLLER	2
8	966-0600-23	LOCK-P-RE-ASSY	1	55	622-1623-00	SL-G-ROLLER-R	2
9	966-0601-21	M-GEAR-P-ASSY	1	56	622-1648-02	DU-STP-SLEEVE	1
10	966-0602-24	DR-LINK-ASSY	1	57	622-1650-23	COV-PLATE PIN-B	2
11	966-0603-21	MODE-P-ASSY	1	58	622-1651-00	LOCK-RE-ROLLER	1
12	966-0604-24	LOCK-PF-ASSY	1	59	622-1652-00	LOCK-PF-ROLLER	1
13	966-0605-20	SHIFT-P-ASSY	1	60	716-1866-00	SCREW(M1.7x3)	4
14	966-0606-23	HLC-PLATE-ASSY	1	61	716-1873-00	SCREW(M2x1.6)	1
15	966-0607-26	COV-OLATE-ASSY	1	62	716-3449-00	SCREW(M2x3)	15
16	HBS-535-100	TOP-PLATE-ASSY	1	63	716-3450-00	SCREW(M1.7x2)	4
17	966-0652-22	DR-BASE-P-ASSY	1	64	716-3451-00	SCREW(M1.7x2.5)	4
18	966-0615-21	LOCK-L-RF-ASSY	1	65	716-3459-00	SCREW(M1.7x5)	1
19	966-0616-20	LOCK-L-LF-ASSY	1	66	716-3466-02	SCREW(M2x6)	1
20	966-0618-21	EJECT-B-ASSY	1	67	738-1422-11	PRECISION SCREW	2
21	966-0624-27	DISC-HOL-ASSY	1	68	743-1200-10	E-RING	2
22	001-7042-00	DIODE (GL4800)	4	69	743-1500-10	E-RING	13
23	013-7414-50	DETECTOR SWITCH	1	70	746-0624-00	WASHER	1
24	-----	LED-L-PWB	1	71	746-0712-23	WASHER	1
25	-----	LED-R-PWB	1	72	746-0761-00	WASHER	1
26	-----	SENSOR PWB	1	73	750-3478-01	TOP-P-SP-L	2
27	039-2009-00	PIM-FPC (WITHOUT COMPONENT)	1	74	750-3479-01	TOP-P-SP-R	1
28	039-2010-00	PIV-FPC (WITHOUT COMPONENT)	1	75	750-3480-01	DR-LOCK-SP	1
29	039-2011-01	LED-FPC	1	76	750-3483-00	EJECT-A-SPRING	1
30	039-2012-00	SENSOR-FPC	1	77	750-3484-01	DR-BASE-SPRING	1
31	039-2013-02	MOS-FPC	1	78	750-3485-01	TENSION-SP-L	1
32	039-2014-01	L-MOTOR-FPC (WITHOUT COMPONENT)	1	79	750-3486-01	LO-TENSION-SP	1
33	051-5806-01	IC (GPIS93)	1	80	750-3489-01	DRIVE-P-SPRING	1
34	051-5806-02	IC (GPIS95)	1	81	750-3496-00	GAP-P-SPRING R	1
35	060-0252-01	PHOTO-TR	4	82	750-3497-00	GAP-P-SPRING L	1
36	347-6657-01	LO-COVER SHEET	1	83	750-6711-01	DU-STP-SPRING	1
37	620-1041-25	GEAR PLATE	1	84	750-6712-01	DR-LOCK-SP-B	1
38	620-1042-20	M-GEAR-H	1	85	621-0651-22	LOAD GEAR-A	1
39	620-1056-22	HLR-PLATE-L	1	86	347-6974-22	FPC COVER	1
40	620-1580-20	HLR-PLATE-R	1	87	716-1850-01	SCREW	1
41	620-1576-20	LO-MOTOR-PLT	1	88	854-4348-01	EXTENSION LEAD	1
42	620-1066-20	LOCK LINK-LR	1	89	620-1604-20	DR-PLATE-SCREW	1
43	620-1067-21	SLIDE PLATE-L	1				
44	620-1068-22	SLIDE PLATE-R	1				
45	620-1071-21	EJECT ARM	1				
46	620-1072-20	EJECT PLATE	1				
47	620-1577-20	FRONT PLATE	1				

Drive unit section  
(CD changer module)



NO.	PART NO.	DESCRIPTION	Q'TY
1	HBS-532-100	CLAMPER SUB ASSY	1
2	SMA-185-101	SPINDLE MOTOR ASSY	1
3	SMA-191-100	SLED MOTOR ASSY	1
4	HBS-515-101	LS-ASSY	1
5	620-1587-83	SH-SP-PLT	1
6	966-0622-24	D-SHIFT-P-ASSY	1
7	969-0011-00	PICK UP-ASSY	1
8	013-7414-50	DETECT SWITCH	1
9	039-2015-01	P/U-FPC	1
10	039-2016-02	M/S-FPC (WITHOUT COMPONENT)	1
11	347-6632-00	PU-SHEET	1
12	620-1078-20	PUSH PLATE	1
13	620-1080-22	PU-GUIDE PLATE	1
14	620-1081-20	SCREW PUSH-PLT	1
15	966-0650-20	SPRING PLT ASSY	1

NO.	PART NO.	DESCRIPTION	Q'TY
16	620-1730-81	SCREW-HOL-PLT	1
17	621-0670-20	LS-HOLDER-L	1
18	621-0673-20	D-GEAR A	1
19	621-0674-20	D-GEAR B	1
20	621-0675-20	D-GEAR C	1
21	621-0683-21	DU-STOPPER	1
22	716-3511-00	SCREW(M1.4x3)	2
23	716-3470-00	SCREW(M1.7x3)	5
24	738-1720-17	PRECISION SCREW	2
25	738-2025-17	PRECISION SCREW	2
26	716-3474-00	SCREW(M1.7x3)	2
27	743-1500-20	E-RING	1
28	750-3487-00	SHIFT-P-SPRING	1
29	750-3504-00	CLAMP-A-SPRING	1
30	966-0649-02	DRIVE PLT-ASSY	1

# ELECTRICAL PARTS LIST

## Main PWB section(B1)

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
BL101	880-1921U	TUNER PACK	C308	178-1052-78	1uF	C668	166-1511-50	150pF CH
C101	166-1511-50	150pF CH	C314	168-1042-78	16V 0.1uF	C671	168-1032-55	0.01uF K
C102	166-4701-50	47pF CH	C317	163-1063-35	16V10uF	C672	178-2242-38	0.22uF B
C103	166-4701-50	47pF CH	C320	042-0592-58	16V 10uF	C673	178-2242-38	0.22uF B
C104	178-1542-78	0.15uF	C321	042-0592-58	16V 10uF	C681	168-2232-55	0.022uF K
C105	168-1032-55	0.01uF K	C322	042-0592-58	16V 10uF	C682	168-2232-55	0.022uF K
C106	168-1032-55	0.01uF K	C323	042-0592-58	16V 10uF	C683	168-2232-55	0.022uF K
C107	178-1052-78	1uF	C324	178-2242-78	0.22uF	C684	168-2232-55	0.022uF K
C108	163-1063-35	16V10uF	C325	178-2242-78	0.22uF	C685	168-2232-55	0.022uF K
C109	168-3322-55	3300pF K	C326	178-2242-78	0.22uF	C686	168-2232-55	0.022uF K
C110	168-1022-55	1000pF K	C327	178-2242-78	0.22uF	C687	168-2232-55	0.022uF K
C111	168-4732-78	0.047uF K	C328	178-1052-78	1uF	C688	168-2232-55	0.022uF K
C112	166-1501-50	15pF CH	C329	178-1052-78	1uF	C701	042-1562-17	16V 10uF
C114	168-1022-55	1000pF K	C330	043-0548-50	2.2uF	C702	042-1562-17	16V 10uF
C115	168-1022-55	1000pF K	C331	043-0548-50	2.2uF	C703	042-1562-17	16V 10uF
C116	166-2201-50	22pF CH	C332	178-4742-78	0.47uF	C704	042-1562-17	16V 10uF
C117	187-1073-37	16V100uF	C333	178-4742-78	0.47uF	C706	168-1032-55	0.01uF K
C118	178-1052-78	1uF	C513	119-0000-05	1/10W 0 ohm JW	C708	168-1022-55	1000pF K
C119	166-1201-50	12pF CH	C514	168-1042-78	16V 0.1uF	C709	168-1022-55	1000pF K
C121	166-1007-50	10pF CH	C516	166-1011-50	100pF CH	C713	168-1022-55	1000pF K
C122	166-1011-50	100pF CH	C517	119-0000-05	1/10W 0 ohm JW	C714	168-2232-55	0.022uF K
C123	188-1073-28	10V 100uF	C519	166-1011-50	100pF CH	C717	188-1066-38	16V 10uF NP
C124	043-0277-51	0.022uF	C601	163-1073-35	16V100uF	C718	188-1066-38	16V 10uF NP
C125	168-1042-78	16V 0.1uF	C602	168-1042-78	16V 0.1uF	D101	001-9008-90	1SV250
C126	188-1073-28	10V 100uF	C603	119-1031-15	1/10W 10k ohm	D102	001-9008-90	1SV250
C127	168-1042-78	16V 0.1uF	C604	119-1031-15	1/10W 10k ohm	D201	001-0516-90	MA111
C128	168-1042-78	16V 0.1uF	C605	119-1031-15	1/10W 10k ohm	D202	001-0529-48	MA8091-H
C129	188-1073-28	10V 100uF	C606	119-1031-15	1/10W 10k ohm	D203	001-0529-48	MA8091-H
C130	178-1052-78	1uF	C607	178-3342-78	0.33uF	D204	001-0529-48	MA8091-H
C131	168-1232-55	0.012uF K	C608	042-9138-00	35V 560uF	D205	001-0529-48	MA8091-H
C133	043-0277-51	0.022uF	C609	119-0000-05	1/10W 0 ohm JW	D206	001-0529-48	MA8091-H
C134	188-4763-38	16V 47uF	C610	119-0000-05	1/10W 0 ohm JW	D501	001-0516-90	MA111
C135	042-1458-90	50V 1uF LN	C611	166-2201-50	22pF CH	D601	001-0347-33	MA4056H
C138	168-1022-55	1000pF K	C612	166-2201-50	22pF CH	D603	001-2407-90	SFPB-74V
C140	168-2232-55	0.022uF K	C613	168-4732-78	0.047uF K	D605	001-0516-90	MA111
C141	188-4763-38	16V 47uF	C614	166-2201-50	22pF CH	D606	001-0504-49	HZS9 C3L
C142	168-3932-78	0.039uF K	C615	166-2201-50	22pF CH	D607	001-0504-49	HZS9 C3L
C143	166-1011-50	100pF CH	C616	119-0000-05	1/10W 0 ohm JW	D608	001-0529-34	MA8062-L
C144	166-1011-50	100pF CH	C617	119-0000-05	1/10W 0 ohm JW	D609	001-0516-90	MA111
C145	166-1011-50	100pF CH	C618	168-1022-55	1000pF K	D610	001-0466-90	S5688B
C146	166-1011-50	100pF CH	C620	178-4742-78	0.47uF	D611	001-0516-90	MA111
C147	168-3932-78	0.039uF K	C621	178-4742-78	0.47uF	D612	001-0466-90	S5688B
C148	166-1801-50	18pF CH	C622	178-4742-78	0.47uF	D613	001-2015-00	RL253
C149	178-3332-78	0.033uF	C623	178-4742-78	0.47uF	D614	001-0466-90	S5688B
C150	178-3332-78	0.033uF	C624	042-0667-00	16V 470uF M	D615	001-0466-90	S5688B
C151	166-1501-50	15pF CH	C625	168-1042-78	16V 0.1uF	D671	001-0529-32	MA8056-M
C152	168-4722-55	4700pF K	C626	042-0592-61	16V 47uF	D703	001-0466-90	S5688B
C153	168-1042-78	16V 0.1uF	C627	168-1042-78	16V 0.1uF	D704	001-0516-90	MA111
C154	166-1011-50	100pF CH	C628	168-1042-78	16V 0.1uF	D705	001-0516-90	MA111
C155	166-1011-50	100pF CH	C629	163-1073-35	16V100uF	D707	001-4305-39	UDZSTE-17 36B
C161	178-2242-78	0.22uF	C630	168-1032-55	0.01uF K	IC101	051-4617-90	LA1061M-TE-L
C162	188-4763-18	6.3V 47uF	C631	042-0592-58	16V 10uF	IC102	051-3020-90	NJM4565V
C163	168-5612-55	560pF Z	C632	163-1073-35	16V100uF	IC103	051-6212-08	LC72191JM-TLM
C164	166-4701-50	47pF CH	C633	163-2273-55	10V 220uF	IC161	051-4607-90	SAA6581T
C165	188-2253-68	50V 2.2uF	C634	168-2232-55	0.022uF K	IC202	052-3161-50	M30624MGA-600GP
C166	166-5601-50	56pF CH	C635	166-2201-50	22pF CH	IC203	051-5436-38	BD5233G-TR
C167	168-3312-55	330pF K	C636	163-2263-35	16V22uF	IC301	051-5037-90	BD3807K
C168	168-1032-55	0.01uF K	C637	168-2232-55	0.022uF K	IC502	051-3020-90	NJM4565V
C169	168-1022-55	1000pF K	C638	163-2253-65	50V2.2uF	IC601	051-3019-90	NJM2060V
C201	168-2232-55	0.022uF K	C639	166-4701-50	47pF CH	IC602	051-3290-00	PQ2CF1
C210	163-4763-15	6.3V47uF	C640	168-6822-55	6800pF K	IC603	051-2055-00	TDA8593J/N3
C211	168-1042-78	16V 0.1uF	C641	163-1073-35	16V100uF	IC604	051-3020-90	NJM4565V
C212	168-2222-55	2200pF K	C642	168-1042-78	16V 0.1uF	IC605	051-5441-08	BD4828G-TR
C213	168-1022-55	1000pF K	C643	163-1073-35	16V100uF	IC606	051-3341-90	BD3931FP
C214	168-1032-55	0.01uF K	C644	172-1041-15	0.1uF	J203	074-0834-12	12P
C215	168-1042-78	16V 0.1uF	C645	042-1465-00	16V 3300uF	J205	074-1192-20	OUTLET SOCKET
C216	168-2222-55	2200pF K	C646	168-2222-55	2200pF K	J602	074-1141-00	NS10+6
C217	168-2222-55	2200pF K	C651	042-0423-21	10V 22uF	J702	074-1013-30	OUTLET SOCKET (A12MW)
C218	168-2222-55	2200pF K	C655	168-1042-78	16V 0.1uF	J703	074-1087-12	OUTLET SOCKET
C219	168-2222-55	2200pF K	C657	168-2222-55	2200pF K	L101	010-2198-65	0.1uH
C301	163-1063-35	16V10uF	C658	168-1042-78	16V 0.1uF	L102	010-2198-53	5.6uH
C302	178-4742-78	0.47uF	C659	163-1073-35	16V100uF	L103	010-2312-52	0.27uH
C303	178-4742-78	0.47uF	C660	188-1053-68	50V 1uF	L104	010-2003-04	30uH
C305	178-1052-78	1uF	C665	166-1511-50	150pF CH	L105	010-6009-76	22uH
C306	178-1052-78	1uF	C666	166-1511-50	150pF CH	L161	010-6009-76	22uH
C307	178-1052-78	1uF	C667	166-1511-50	150pF CH			

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
L202	010-3407-66	NLV32 22uH J	R134	119-1031-15	1/10W 10k ohm	R607	119-1031-15	1/10W 10k ohm
L203	010-3407-66	NLV32 22uH J	R135	119-1021-15	1/10W 1k ohm	R608	119-1031-15	1/10W 10k ohm
L601	010-8030-00	100uH	R136	119-1021-15	1/10W 1k ohm	R609	032-0140-54	1/10W 22k ohm F
P101	076-0368-06	PLUG 6P	R137	119-1031-15	1/10W 10k ohm	R610	032-0140-62	1/10W 1k ohm F
P102	076-0368-18	PLUG 18P	R138	119-4721-15	1/10W 4.7k ohm	R611	119-1031-15	1/10W 10k ohm
P701	074-0898-06	SOCKET 6P	R139	119-4721-15	1/10W 4.7k ohm	R612	119-1031-15	1/10W 10k ohm
P702	074-0898-18	SOCKET 18P	R140	119-2221-15	1/10W 2.2k ohm	R613	119-1031-15	1/10W 10k ohm
Q101	192-4116-00	2SC4116	R141	119-1021-15	1/10W 1k ohm	R614	119-1031-15	1/10W 10k ohm
Q102	192-4116-00	2SC4116	R142	119-2701-15	1/10W 27 ohm	R615	119-1021-15	1/10W 1k ohm
Q103	125-2026-91	UN5211	R143	119-4731-15	1/10W 47k ohm	R616	119-1031-15	1/10W 10k ohm
Q104	125-2026-91	UN5211	R161	119-1021-15	1/10W 1k ohm	R617	119-1031-15	1/10W 10k ohm
Q105	125-2026-91	UN5211	R162	119-1021-15	1/10W 1k ohm	R618	119-1031-15	1/10W 10k ohm
Q106	125-2026-91	UN5211	R163	119-1031-15	1/10W 10k ohm	R619	119-1031-15	1/10W 10k ohm
Q107	192-4116-51	2SC4116 G,L	R164	119-1031-15	1/10W 10k ohm	R620	119-1031-15	1/10W 10k ohm
Q109	192-4116-51	2SC4116 G,L	R206	119-4721-15	1/10W 4.7k ohm	R621	119-1031-15	1/10W 10k ohm
Q110	190-1162-00	2SA1162	R207	119-4721-15	1/10W 4.7k ohm	626	116-2221-15	1/4W 2.2k ohm
Q111	190-1162-00	2SA1162	R209	119-4731-15	1/10W 47k ohm	R627	116-2221-15	1/4W 2.2k ohm
Q161	192-4116-00	2SC4116	R211	119-4731-15	1/10W 47k ohm	R628	119-2231-15	1/10W 22k ohm
Q201	125-2026-92	UN5212	R212	119-4731-15	1/10W 47k ohm	R629	119-1031-15	1/10W 10k ohm
Q204	125-9017-92	UMD3N-TR	R213	119-1011-15	1/10W 100 ohm	R630	119-1021-15	1/10W 1k ohm
Q205	192-4116-00	2SC4116	R214	119-1011-15	1/10W 100 ohm	R633	119-4731-15	1/10W 47k ohm
Q206	125-0020-91	UN5111	R216	119-4731-15	1/10W 47k ohm	R634	119-4731-15	1/10W 47k ohm
Q207	125-2026-91	UN5211	R217	119-4721-15	1/10W 4.7k ohm	R635	119-2731-15	1/10W 27k ohm
Q209	192-4116-00	2SC4116	R219	119-4731-15	1/10W 47k ohm	R636	119-1041-15	1/10W 100k ohm
Q504	125-2026-91	UN5211	R220	119-4731-15	1/10W 47k ohm	R637	116-2211-15	1/4W 220 ohm
Q505	125-2026-91	UN5211	R221	119-3311-15	1/10W 330 ohm	R638	119-1041-15	1/10W 100k ohm
Q506	191-0709-00	2SB709A Q,R,S	R222	119-1021-15	1/10W 1k ohm	R639	119-1231-15	1/10W 12k ohm
Q601	103-2012-00	2SD2012	R223	119-1021-15	1/10W 1k ohm	R640	119-1031-15	1/10W 10k ohm
Q606	191-1214-00	2SB1214	R224	119-1031-15	1/10W 10k ohm	R641	119-1031-15	1/10W 10k ohm
Q607	192-2712-51	2SC2712 G,L	R225	119-1021-15	1/10W 1k ohm	R642	119-1031-15	1/10W 10k ohm
Q608	193-1259-50	2SD1259DS R,Q	R226	119-1031-15	1/10W 10k ohm	R643	119-1031-15	1/10W 10k ohm
Q609	125-9017-92	UMD3N-TR	R227	119-3311-15	1/10W 330 ohm	R644	032-0140-16	1/10W18ohm F
Q610	193-2118-00	2SD2118F5 Q,R,S	R228	119-4731-15	1/10W 47k ohm	R645	032-0106-65	1/8W 100k ohm D
Q611	192-4116-00	2SC4116	R229	119-4731-15	1/10W 47k ohm	R646	116-3911-15	1/4W 390 ohm
Q612	125-9017-92	UMD3N-TR	R230	119-1521-15	1/10W 1.5k ohm	R647	119-1041-15	1/10W 100k ohm
Q613	125-2026-95	UN521N	R231	119-2231-15	1/10W 22k ohm	R648	119-5611-15	1/10W 560 ohm
Q614	131-1188-00	2SB1188	R232	119-3311-15	1/10W 330 ohm	R649	119-1031-15	1/10W 10k ohm
Q615	190-1298-00	2SA1298	R236	119-2231-15	1/10W 22k ohm	R650	119-1031-15	1/10W 10k ohm
Q616	125-2026-91	UN5211	R238	119-4731-15	1/10W 47k ohm	R651	116-1221-15	1/4W 1.2k ohm
Q617	125-2026-95	UN521N	R239	119-4731-15	1/10W 47k ohm	R652	116-1091-15	1/4W 1 ohm
Q618	131-1188-00	2SB1188	R240	119-1021-15	1/10W 1k ohm	R653	119-3321-15	1/10W 3.3k ohm
Q671	193-2118-00	2SD2118F5 Q,R,S	R241	119-4731-15	1/10W 47k ohm	R654	119-1031-15	1/10W 10k ohm
Q672	125-9017-92	UMD3N-TR	R242	119-4731-15	1/10W 47k ohm	R655	119-1031-15	1/10W 10k ohm
Q704	125-2026-91	UN5211	R243	119-4731-15	1/10W 47k ohm	R656	116-1221-15	1/4W 1.2k ohm
Q705	125-2026-91	UN5211	R244	119-4731-15	1/10W 47k ohm	R657	116-1091-15	1/4W 1 ohm
Q706	125-0020-91	UN5111	R245	119-4731-15	1/10W 47k ohm	R658	116-1531-15	1/4W 15k ohm
Q709	192-4116-00	2SC4116	R246	119-1041-15	1/10W 100k ohm	R659	116-3331-15	1/4W 33k ohm
Q710	192-4116-00	2SC4116	R247	119-4731-15	1/10W 47k ohm	R660	116-2721-15	1/4W 2.2k ohm
Q714	192-4116-00	2SC4116	R248	116-2211-15	1/4W 220 ohm	R661	116-2721-15	1/4W 2.2k ohm
R101	119-1041-15	1/10W 100k ohm	R249	119-1041-15	1/10W 100k ohm	R662	119-2201-15	1/10W 22 ohm
R102	119-1041-15	1/10W 100k ohm	R250	119-4741-15	1/10W 470k ohm	R663	119-2221-15	1/10W 2.2k ohm
R103	119-2731-15	1/10W 27k ohm	R251	119-4741-15	1/10W 470k ohm	R664	119-2221-15	1/10W 2.2k ohm
R104	119-2731-15	1/10W 27k ohm	R252	119-1031-15	1/10W 10k ohm	R665	119-2221-15	1/10W 2.2k ohm
R105	119-1041-15	1/10W 100k ohm	R253	119-4731-15	1/10W 47k ohm	R666	119-2221-15	1/10W 2.2k ohm
R106	119-1041-15	1/10W 100k ohm	R254	119-5631-15	1/10W 56k ohm	R671	117-2211-15	1/8W 220 ohm
R107	119-1031-15	1/10W 10k ohm	R255	119-0000-05	1/10W 0 ohm JW	R672	119-1041-15	1/10W 100k ohm
R108	119-1031-15	1/10W 10k ohm	R258	119-1021-15	1/10W 1k ohm	R673	119-1041-15	1/10W 100k ohm
R109	119-5631-15	1/10W 56k ohm	R260	119-4731-15	1/10W 47k ohm	R690	119-4721-15	1/10W 4.7k ohm
R110	119-3911-15	1/10W 390 ohm	R261	119-1021-15	1/10W 1k ohm	R691	119-4721-15	1/10W 4.7k ohm
R111	119-4731-15	1/10W 47k ohm	R263	119-1021-15	1/10W 1k ohm	R692	119-4721-15	1/10W 4.7k ohm
R112	119-1021-15	1/10W 1k ohm	R264	119-1021-15	1/10W 1k ohm	R693	119-4721-15	1/10W 4.7k ohm
R113	119-1031-15	1/10W 10k ohm	R265	119-1021-15	1/10W 1k ohm	R703	119-3011-15	1/10W 300 ohm
R114	119-1031-15	1/10W 10k ohm	R266	119-1021-15	1/10W 1k ohm	R704	119-3011-15	1/10W 300 ohm
R115	119-1011-15	1/10W 100 ohm	R267	119-1021-15	1/10W 1k ohm	R705	119-1031-15	1/10W 10k ohm
R116	119-4741-15	1/10W 470k ohm	R268	119-1021-15	1/10W 1k ohm	R708	119-3321-15	1/10W 3.3k ohm
R117	119-1021-15	1/10W 1k ohm	R269	119-4731-15	1/10W 47k ohm	R709	119-2231-15	1/10W 22k ohm
R118	119-1021-15	1/10W 1k ohm	R301	032-0106-64	1/8W 56k ohm D	R710	119-4731-15	1/10W 47k ohm
R121	119-1841-15	1/10W 180k ohm	R302	032-0106-64	1/8W 56k ohm D	R712	119-2231-15	1/10W 22k ohm
R122	119-2221-15	1/10W 2.2k ohm	R303	032-0106-64	1/8W 56k ohm D	R713	119-4731-15	1/10W 47k ohm
R123	119-0000-05	1/10W 0 ohm JW	R304	032-0106-64	1/8W 56k ohm D	R715	119-1031-15	1/10W 10k ohm
R124	119-4721-15	1/10W 4.7k ohm	R311	119-3331-15	1/10W 33k ohm	R716	119-5631-15	1/10W 56k ohm
R125	119-1021-15	1/10W 1k ohm	R516	119-4731-15	1/10W 47k ohm	R717	119-1031-15	1/10W 10k ohm
R126	119-2221-15	1/10W 2.2k ohm	R519	119-1021-15	1/10W 1k ohm	R718	119-1031-15	1/10W 10k ohm
R127	119-4721-15	1/10W 4.7k ohm	R520	119-2231-15	1/10W 22k ohm	R721	119-5631-15	1/10W 56k ohm
R128	119-3321-15	1/10W 3.3k ohm	R522	032-0140-50	1/10W 10k ohm F	R722	119-5631-15	1/10W 56k ohm
R129	119-1001-15	1/10W 10 ohm	R524	032-0140-50	1/10W 10k ohm F	R728	119-5621-15	1/10W 5.6k ohm
R130	119-1501-15	1/10W 15 ohm	R525	032-0140-50	1/10W 10k ohm F	R730	119-5621-15	1/10W 5.6k ohm
R131	119-2221-15	1/10W 2.2k ohm	R526	032-0140-50	1/10W 10k ohm F	R732	119-3011-15	1/10W 300 ohm
R132	119-2221-15	1/10W 2.2k ohm	R601	116-3311-15	1/4W 330 ohm	SUP101	060-0122-91	DSP-141N-S00B
R133	119-1021-15	1/10W 1k ohm	R603	114-1001-21	2W 10 ohm	SUP102	060-0122-91	DSP-141N-S00B

REF No.	PART No.	DESCRIPTION
T601	009-0675-01	CHOKE
TH601	002-0229-90	PTH8L05B
TH602	002-0229-90	PTH8L05B
VR101	012-5203-63	470k ohm

REF No.	PART No.	DESCRIPTION
VR102	012-5203-56	10k ohm
X101	061-1066-80	7.2MHz
X161	061-3013-90	4.332MHz
X201	060-1505-50	10MHz

REF No.	PART No.	DESCRIPTION
PWB	039-2598-00	PWB(WITHOUT COMPONENT)

#### CD PWB(B2) section

REF No.	PART No.	DESCRIPTION
C1	168-4735-56	0.047uF Z
C2	168-4735-56	0.047uF Z
C4	168-1222-55	1200pF K
C5	163-2263-35	16V22uF
C6	168-1222-55	1200pF K
C12	168-1222-55	1200pF K
C15	168-1222-55	1200pF K
C16	163-2263-35	16V22uF
C18	168-1045-56	0.1uF Z
C19	166-1011-50	100pF CH
C21	168-1032-55	0.01uF K
C22	168-1045-56	0.1uF Z
C23	168-1045-56	0.1uF Z
C24	168-1032-55	0.01uF K
C25	163-1073-15	6.3V100uF
C26	178-1052-78	1uF
C27	168-1045-56	0.1uF Z
C28	042-0671-01	10V 47uF TA
C29	168-1045-56	0.1uF Z
C30	178-3342-78	0.33uF
C31	042-1673-00	10V 220uF
CCT4	050-0140-55	1/32W 2.2k ohmx4J
CCT5	050-0145-54	1/16W 47k ohm x4
CCT6	050-0145-53	1/16W 220k ohm x4 J
D2	001-2610-90	RB480KTL
IC2	051-5445-08	BD5227G-TR

REF No.	PART No.	DESCRIPTION
IC3	052-5061-01	M30621MCM
		-4S5GP
IC4	051-9402-78	BR93L56RFVM-W
IC5	051-3332-90	NJU7222U33
IC6	051-3293-90	BA033SFP-E2
J1	074-1189-95	45P
J3	074-1237-70	20P
P1	076-0478-55	PLUG
Q3	190-1162-00	2SA1162
Q4	198-3018-00	2SK3018
Q5	131-1188-50	2SB1188PQR
Q6	198-3018-00	2SK3018
Q7	125-2004-92	RN1402
Q8	125-2004-92	RN1402
Q9	125-0014-92	DTA114EK
Q53	193-0601-00	2SD601A
R2	119-2211-15	1/10W 220 ohm
R4	119-4731-15	1/10W 47k ohm
R8	119-4731-15	1/10W 47k ohm
R10	119-2211-15	1/10W 220 ohm
R13	119-1041-15	1/10W 100k ohm
R14	119-2221-15	1/10W 2.2k ohm
R15	119-1041-15	1/10W 100k ohm
R16	119-1021-15	1/10W 1k ohm
R20	119-4731-15	1/10W 47k ohm
R24	119-4731-15	1/10W 47k ohm
R25	119-1031-15	1/10W 10k ohm

REF No.	PART No.	DESCRIPTION
R26	119-4721-15	1/10W 4.7k ohm
R27	119-1031-15	1/10W 10k ohm
R28	119-1041-15	1/10W 100k ohm
R29	119-1041-15	1/10W 100k ohm
R31	119-4731-15	1/10W 47k ohm
R32	119-0000-05	1/10W 0 ohm JW
R35	119-0000-05	1/10W 0 ohm JW
R36	119-4731-15	1/10W 47k ohm
R37	119-4731-15	1/10W 47k ohm
R38	119-2231-15	1/10W 22k ohm
R39	119-2231-15	1/10W 22k ohm
R40	119-2231-15	1/10W 22k ohm
R41	119-4711-15	1/10W 470 ohm
R42	119-2231-15	1/10W 22k ohm
R43	119-2241-15	1/10W 220k ohm
R60	119-0000-05	1/10W 0 ohm JW
R530	119-4731-15	1/10W 47k ohm
R550	119-4731-15	1/10W 47k ohm
TM1	073-0768-90	TERMINAL
TM2	073-0766-90	TERMINAL
TM4	073-0766-90	TERMINAL
TM5	073-0766-90	TERMINAL
X1	060-1533-90	CSTCE10M0G52-R0
PWB	039-2532-20	PWB(WITHOUT COMPONENT)

#### DPS PWB(B3) section

REF No.	PART No.	DESCRIPTION
C1	042-0671-01	10V 47uF TA
C2	168-4735-56	0.047uF Z
C3	046-4722-58	4700pF
C4	046-1032-78	0.01uF
C5	168-1045-56	0.1uF Z
C6	042-0671-01	10V 47uF TA
C7	168-1045-56	0.1uF Z
C8	168-1045-56	0.1uF Z
C9	045-1007-50	10pF
C10	168-1045-56	0.1uF Z
C11	045-1007-50	10pF
C12	168-1045-56	0.1uF Z
C13	042-0672-00	25V 47uF TA
C14	168-4735-56	0.047uF Z
C15	168-4735-56	0.047uF Z
C16	168-4735-56	0.047uF Z
C17	178-1052-78	1uF
C18	045-4701-50	47pF
C19	168-1045-56	0.1uF Z
C20	046-4712-58	470pF
C21	046-4712-58	470pF
C22	168-1045-56	0.1uF Z
C23	046-1532-78	0.015uF
C24	168-1045-56	0.1uF Z
C25	046-6822-58	6800pF
C26	046-1032-78	0.01uF
C28	046-1022-58	1000pF
C29	046-3332-78	0.033uF
C32	046-4722-58	4700pF
C33	046-1522-58	1500pF
C34	168-1045-56	0.1uF Z
C35	046-1532-78	0.015uF
C36	168-1045-56	0.1uF Z
C37	168-1045-56	0.1uF Z
C38	042-0671-01	10V 47uF TA
C39	178-1052-78	1uF
C40	045-6801-50	68pF
C41	168-1045-56	0.1uF Z

REF No.	PART No.	DESCRIPTION
C42	178-1052-78	1uF
C43	042-0671-01	10V 47uF TA
C44	046-6812-58	680pF
C45	168-1045-56	0.1uF Z
C46	168-1045-56	0.1uF Z
C47	042-0671-01	10V 47uF TA
C48	168-5632-78	16V 0.056uF
C49	168-1045-56	0.1uF Z
C50	168-1045-56	0.1uF Z
C51	168-1045-56	0.1uF Z
C53	168-1045-56	0.1uF Z
C54	042-0671-01	10V 47uF TA
C56	168-4712-55	470pF K
C57	046-1032-78	0.01uF
C58	168-4712-55	470pF K
C59	168-1045-56	0.1uF Z
C60	168-1045-56	0.1uF Z
C61	046-1032-78	0.01uF
C62	042-0671-01	10V 47uF TA
C63	046-1032-78	0.01uF
C64	168-1045-56	0.1uF Z
C65	045-1201-50	12pF
C66	046-1032-78	0.01uF
C67	046-1032-78	0.01uF
C68	168-1045-56	0.1uF Z
C69	045-1201-50	12pF
C101	046-1032-78	0.01uF
C102	046-1032-78	0.01uF
CCT1	050-0140-68	1/32W 3.3k ohm x4J
CCT4	050-0140-63	1/32W 47k ohm x4J
D1	001-0367-91	1SS226
D2	001-2610-90	RB480KTL
IC2	051-6399-00	TC94A15F
IC3	051-6060-08	BD7961FM-E2
IC4	051-7518-18	SN74LVC139APWR
IC5	052-5062-02	MBM29DL800BA-90PFTN
IC6	051-7518-18	SN74LVC139APWR

REF No.	PART No.	DESCRIPTION
IC7	051-9330-00	K4S641632F-TC60
IC8	051-7203-48	SN74LV74APW
IC9	051-6700-00	TMS320DA140
		PGE160
IC10	051-3315-90	TPS76316DBVR
IC11	051-7221-58	SN74AHC1G04
		HDCKR
IC12	051-7525-08	SN74LVC2GU04
		DCKR
IC13	051-7526-08	SN74LVC1G126
		DCKR
J1	074-1201-65	15P
J2	074-1138-56	6P
J3	074-1059-76	26P
J4	074-1189-95	45P
J5	074-1201-60	10P
L2	010-3104-54	MPZ1608S601AT
L3	010-3104-54	MPZ1608S601AT
Q1	131-1188-50	2SB1188PQR
Q2	131-1188-50	2SB1188PQR
Q3	125-2004-92	RN1402
R1	033-1021-15	1/10W 1k ohm
R2	033-1021-15	1/10W 1k ohm
R3	033-3311-15	1/10W 330 ohm
R4	033-2211-15	1/10W 220 ohm
R5	033-2211-15	1/10W 220 ohm
R6	033-1021-15	1/10W 1k ohm
R7	033-1051-15	1/10W 1M ohm
R8	033-0000-05	1/10W 0 ohm
R10	033-5621-15	1/10W 5.6k ohm
R11	033-4731-15	1/10W 47k ohm
R12	119-3341-15	1/10W 330k ohm
R13	033-2231-15	1/10W 22k ohm
R14	033-2231-15	1/10W 22k ohm
R15	117-1001-15	1/8W 10 ohm
R16	033-5631-15	1/10W 56k ohm
R17	033-3331-15	1/10W 33k ohm
R18	033-6831-15	1/10W 68k ohm

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
R19	033-6831-15	1/10W 68k ohm	R38	033-3311-15	1/10W 330 ohm	R100	033-1011-15	1/10W 100 ohm
R20	033-1011-15	1/10W 100 ohm	R39	033-2211-15	1/10W 220 ohm	R101	033-1011-15	1/10W 100 ohm
R21	116-4711-15	1/4W 470 ohm	R40	033-1011-15	1/10W 100 ohm	R102	033-1011-15	1/10W 100 ohm
R22	117-1811-15	1/8W 180 ohm	R41	033-1001-15	1/10W 10 ohm	R103	033-1011-15	1/10W 100 ohm
R23	116-4711-15	1/4W 470 ohm	R42	033-1001-15	1/10W 10 ohm	R104	033-1011-15	1/10W 100 ohm
R24	033-2231-15	1/10W 22k ohm	R45	033-1011-15	1/10W 100 ohm	R105	033-1011-15	1/10W 100 ohm
R25	033-2231-15	1/10W 22k ohm	R46	033-4731-15	1/10W 47k ohm	R106	033-1011-15	1/10W 100 ohm
R26	033-2231-15	1/10W 22k ohm	R47	033-4731-15	1/10W 47k ohm	R107	033-4731-15	1/10W 47k ohm
R27	033-1011-15	1/10W 100 ohm	R48	033-1011-15	1/10W 100 ohm	R200	033-1051-15	1/10W 1M ohm
R28	033-4731-15	1/10W 47k ohm	R49	033-0000-05	1/10W 0 ohm	R201	033-1021-15	1/10W 1k ohm
R29	033-2231-15	1/10W 22k ohm	R50	033-0000-05	1/10W 0 ohm	R202	033-1021-15	1/10W 1k ohm
R30	033-4721-15	1/10W 4.7k ohm	R51	033-8231-15	1/10W 82k ohm	R220	033-4731-15	1/10W 47k ohm
R31	033-4721-15	1/10W 4.7k ohm	R52	033-0000-05	1/10W 0 ohm	R301	119-2231-15	1/10W 22k ohm
R32	033-4731-15	1/10W 47k ohm	R53	033-4731-15	1/10W 47k ohm	R302	119-3911-15	1/10W 390 ohm
R33	033-4731-15	1/10W 47k ohm	R63	033-2231-15	1/10W 22k ohm	X1	061-3534-90	16.92MHz
R35	033-4731-15	1/10W 47k ohm	R64	033-2231-15	1/10W 22k ohm	PWB	039-2531-20	PWB(WITHOUT COMPONENT)
R36	033-3311-15	1/10W 330 ohm	R65	033-4731-15	1/10W 47k ohm			
R37	033-4731-15	1/10W 47k ohm	R66	033-4731-15	1/10W 47k ohm			

#### Sensor PWB(B4) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
PT3	060-0252-01	PT4850F	S1	013-7414-50	SPVG22
PT4	060-0252-01	PT4850F	PWB	039-1956-00	PWB(WITHOUT COMPONENT)
PT5	060-0252-01	PT4850F			
PT6	060-0252-01	PT4850F			

#### PIM-FPC(B5) section

REF No.	PART No.	DESCRIPTION
IC5	051-5806-02	GPIS95

#### Driver PWB(B6) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
C1	168-1045-56	0.1uF	J1	074-1239-76	26P	R3	032-0104-59	1/4W 2.2 ohm
C2	163-1073-35	16V100uF	J2	074-1100-59	9P	S1	013-7412-50	SPVG21
D1	001-0529-32	MA8056-M	R1	033-1021-15	1/10W 1k ohm	PWB	039-2242-00	PWB(WITHOUT COMPONENT)
IC1	051-6044-18	BA6920FP-Y	R2	032-0104-59	1/4W 2.2 ohm			

#### PIV-FPC(B7) section

REF No.	PART No.	DESCRIPTION
IC6	051-5806-01	GPIS93

#### LED-L-PWB(B8) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
LED3	001-7042-00	GL4800	PWB	039-1954-20	PWB(WITHOUT COMPONENT)
LED4	001-7042-00	GL4800			

#### LED-R-PWB(B9) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
LED5	001-7042-00	GL4800	PWB	039-1955-20	PWB(WITHOUT COMPONENT)
LED6	001-7042-00	GL4800			

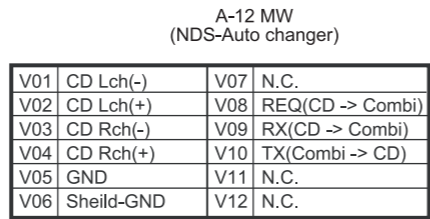
#### L-Motor-FPC(B10) section

REF No.	PART No.	DESCRIPTION
M1	SMA-186-100	LOADING

#### M/S-FPC(B11) section

REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION	REF No.	PART No.	DESCRIPTION
M2	SMA-185-101	SPINDLE	M3	SMA-191-100	SLED	S2	013-7414-50	SPVG22

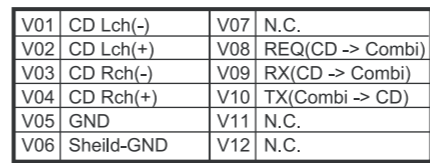
## Main PWB-B(B1) section 1/5



A-16 MW  
(Remote control)

V21	N.C.	V29	REMO-GND
V22	SPEED SIG	V30	N.C.
V23	N.C.	V31	N.C.
V24	N.C.	V32	N.C.
V25	N.C.	V33	GND
V26	REMO-A	V34	NAVI IN(-)
V27	REMO-B	V35	NAVI-GND
V28	NAVI-ON	V36	NAVI IN(+)

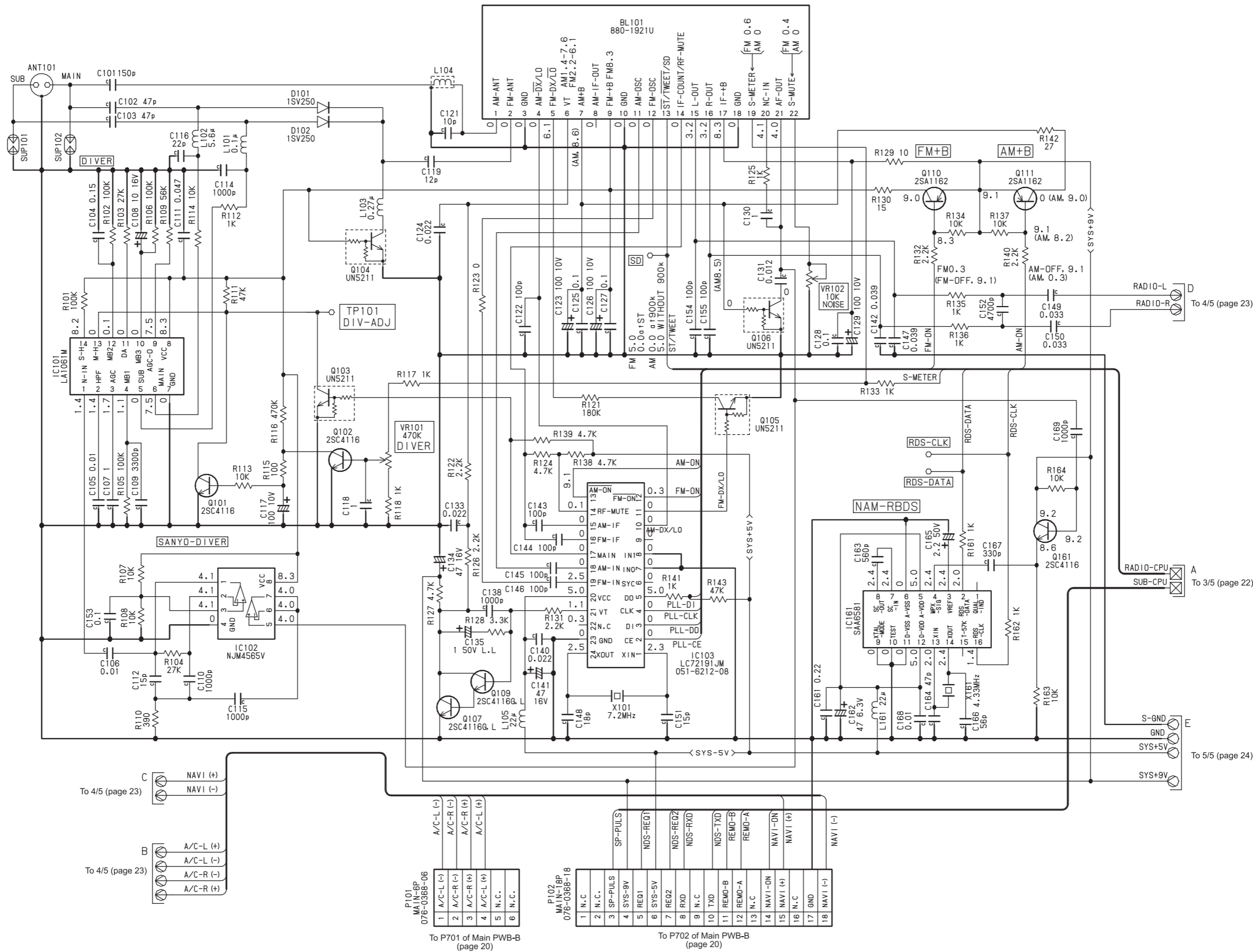
## Main PWB-B(B1) section



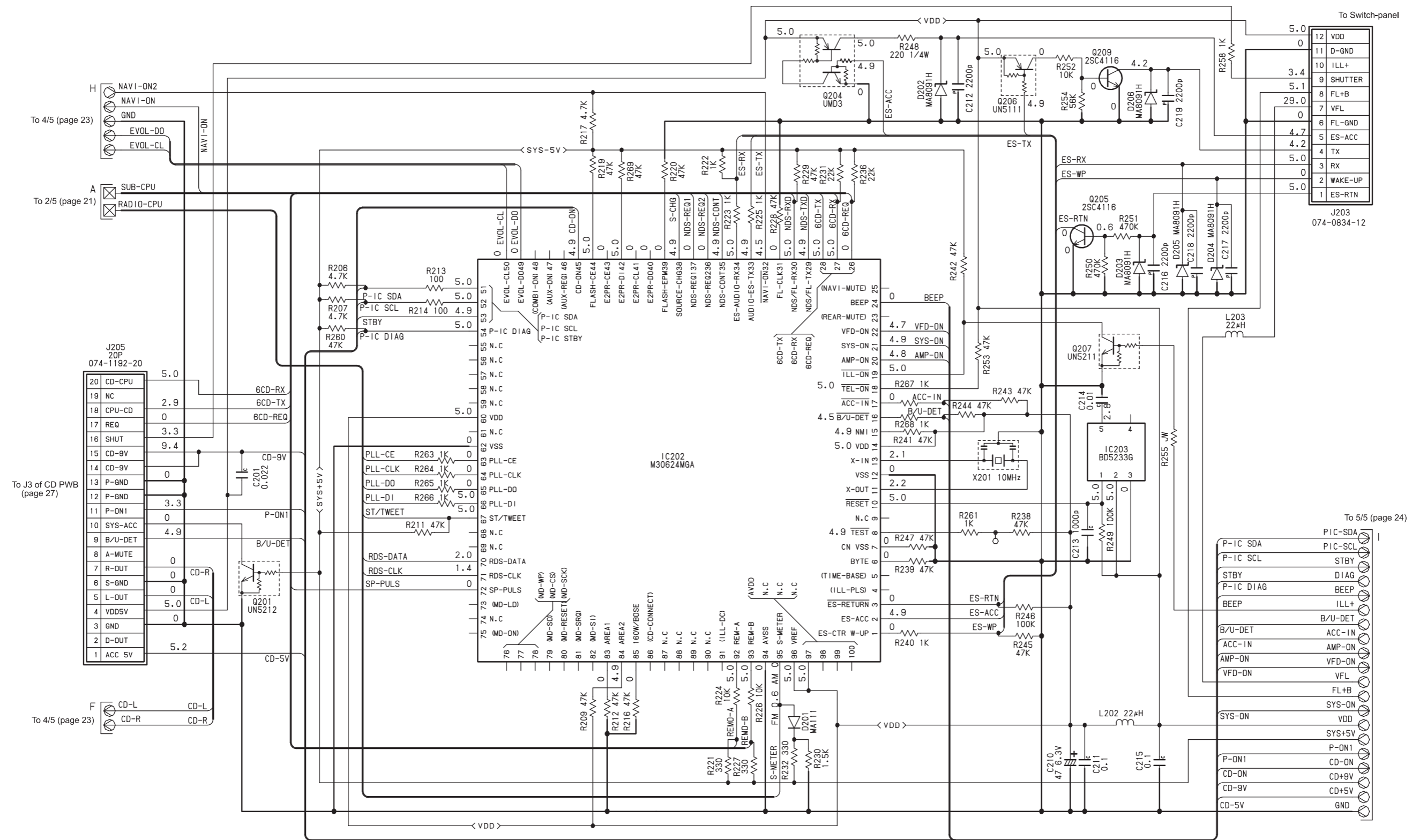
V21	N.C.	V29	REMO-GND
V22	SPEED SIG	V30	N.C.
V23	N.C.	V31	N.C.
V24	N.C.	V32	N.C.
V25	N.C.	V33	GND
V26	REMO-A	V34	NAVI IN(-)
V27	REMO-B	V35	NAVI-GND
V28	NAVI-ON	V36	NAVI IN(+)

CIRCUIT DIAGRAM

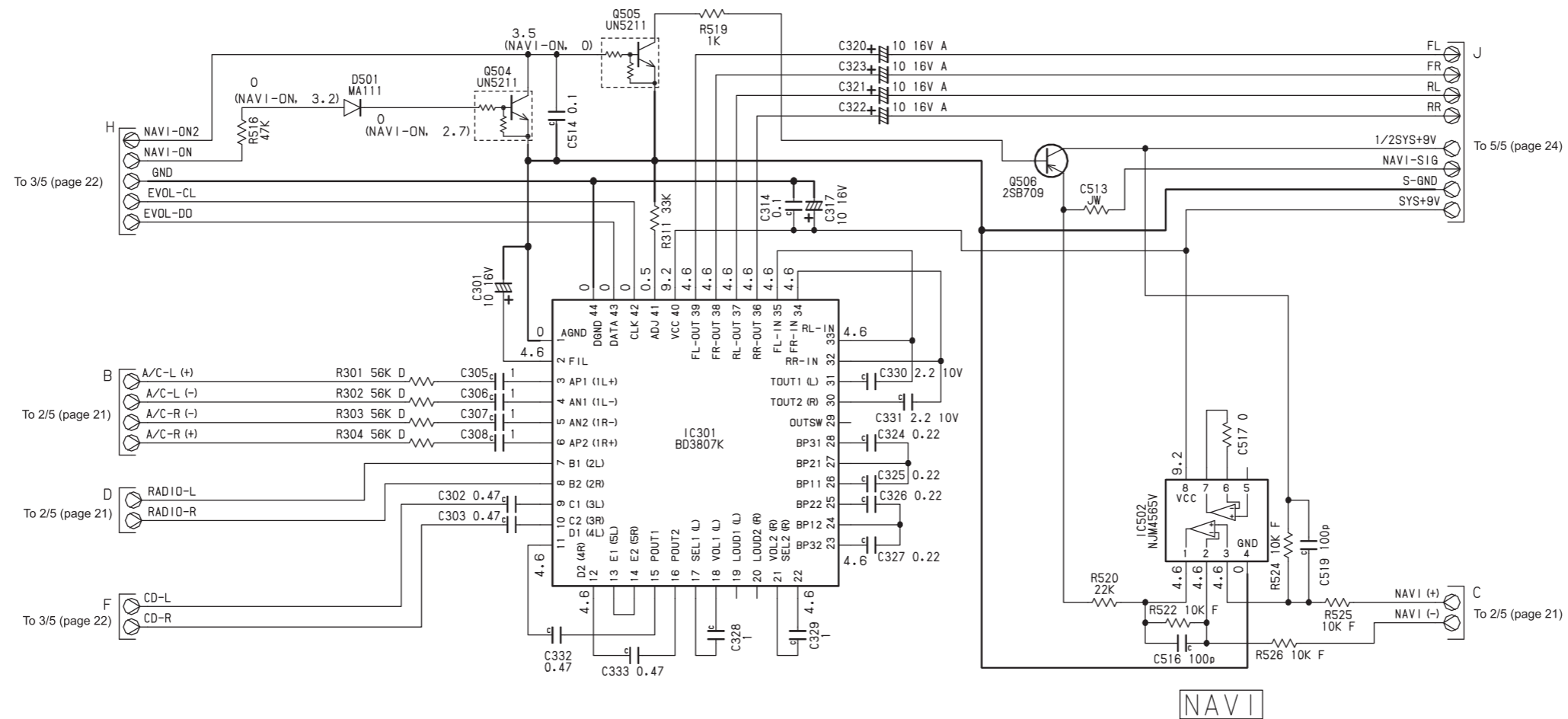
Main PWB(B1) section 2/5  
(Tuner block)



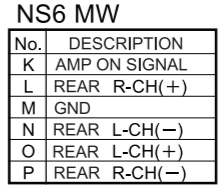
Main PWB(B1) section 3/5  
(System control block)



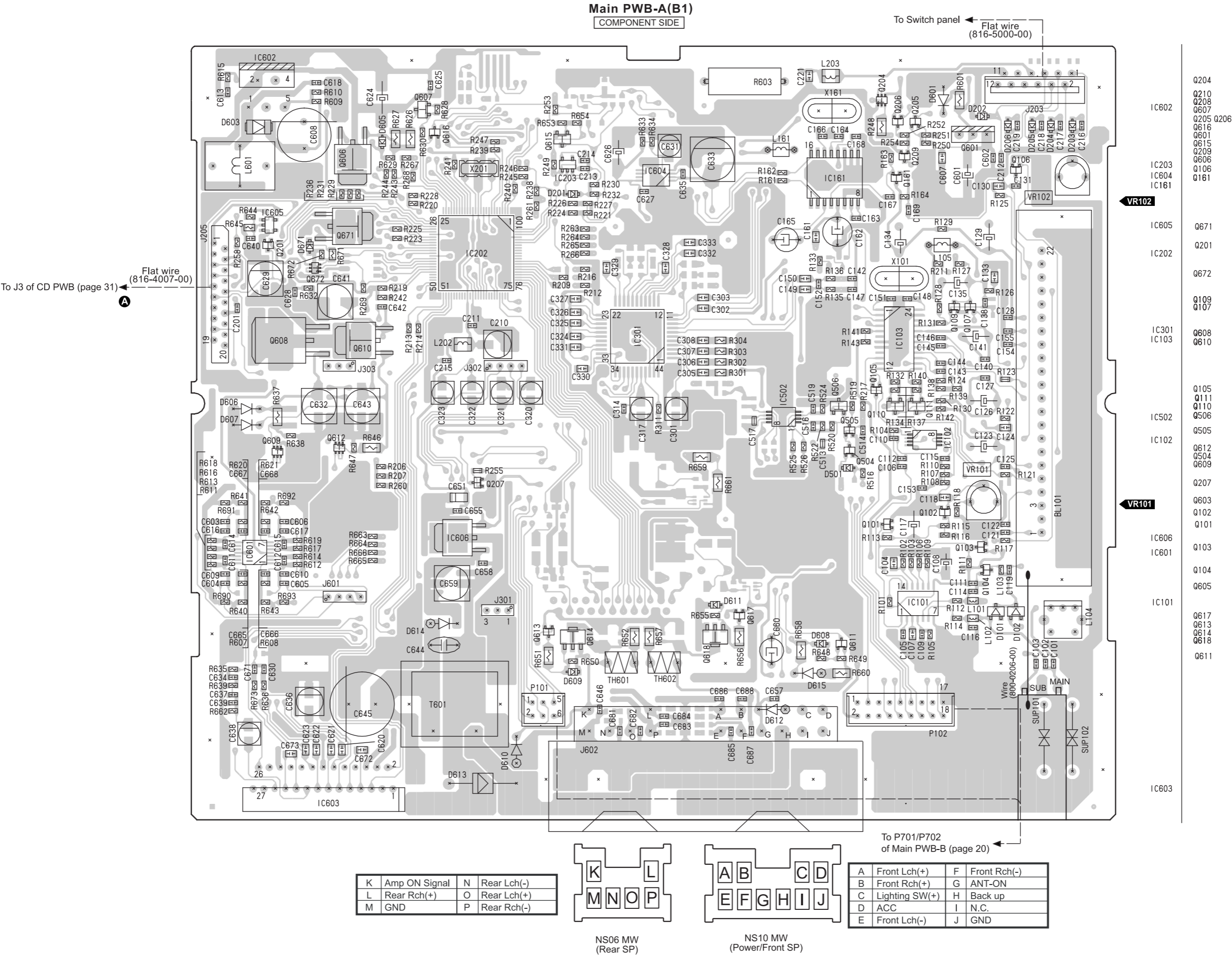
(E-Vol,EQ block)



(Power supply,Power block)



PRINTED WIRING BOARD  
Main PWB-A(B1) section 1/2

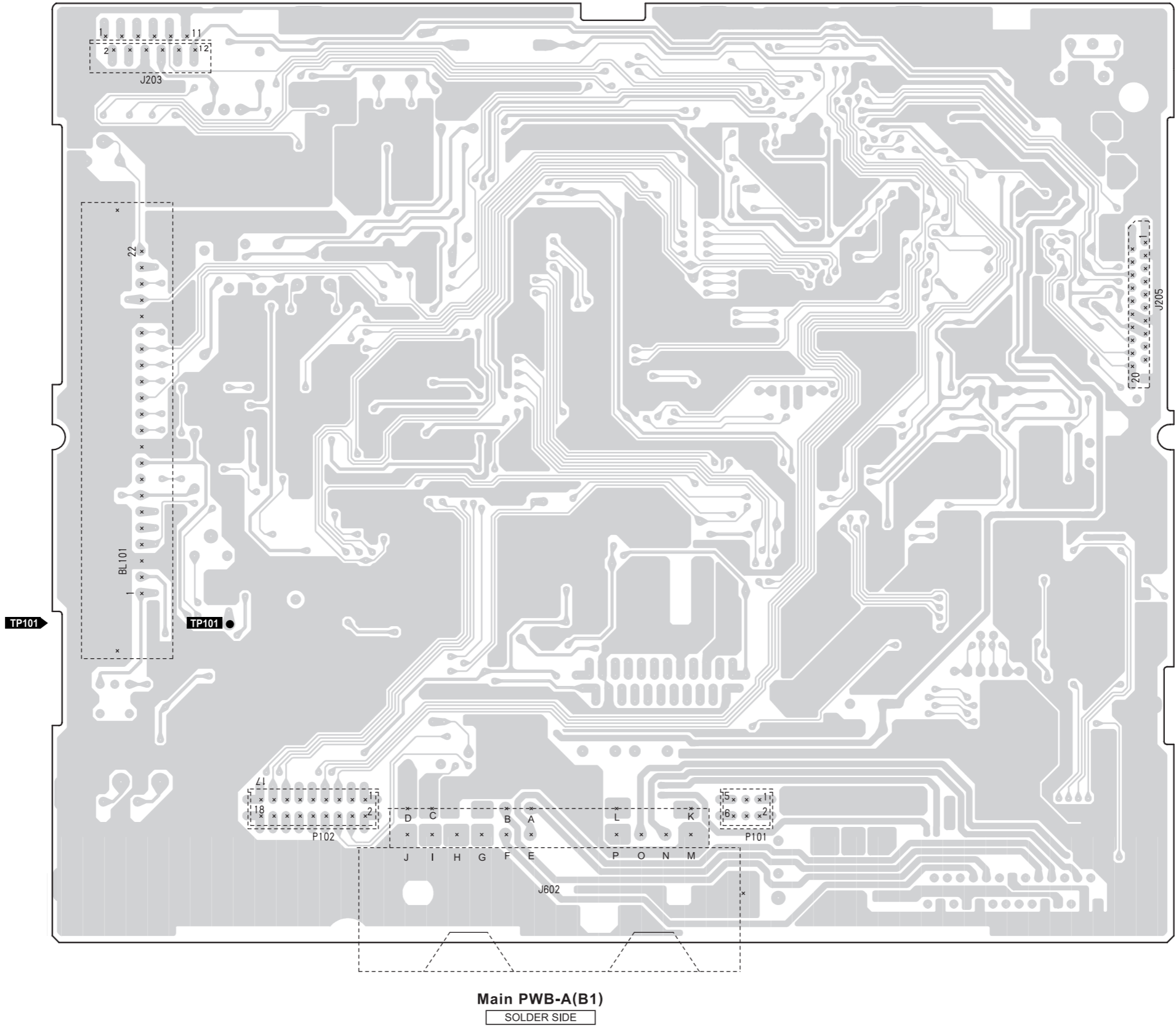


Main PWB-A(B1) section 2/2

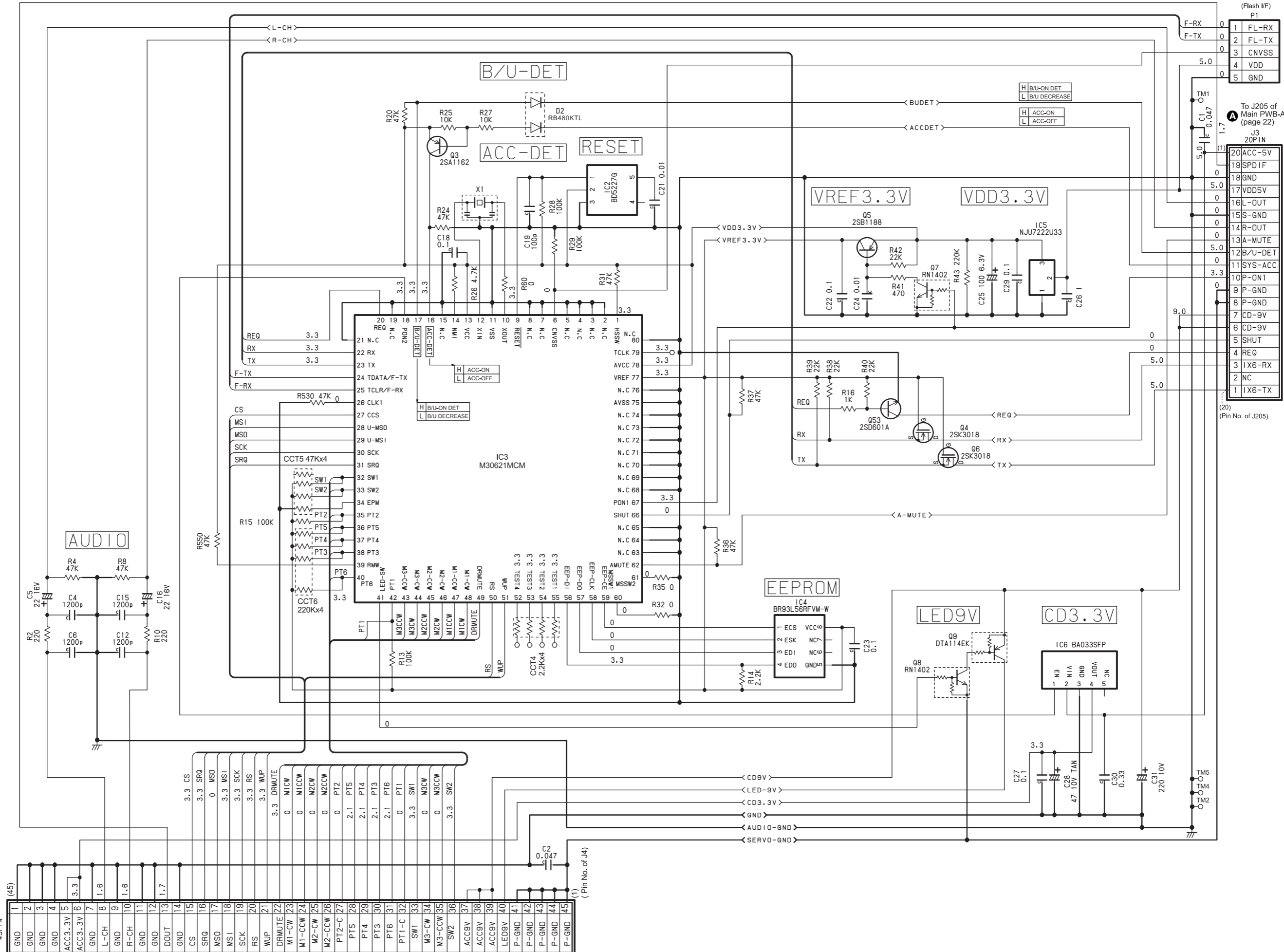
Caution:

**COMPONENT SIDE:**  
Parts on the component side seen from the component side are indicated.

**SOLDER SIDE:**  
Parts on the solder side seen from the solder side are indicated.



CIRCUIT DIAGRAM  
CD PWB(B2) section



B To J4 of DSP PWB  
(page 29)

(Flash I/F)

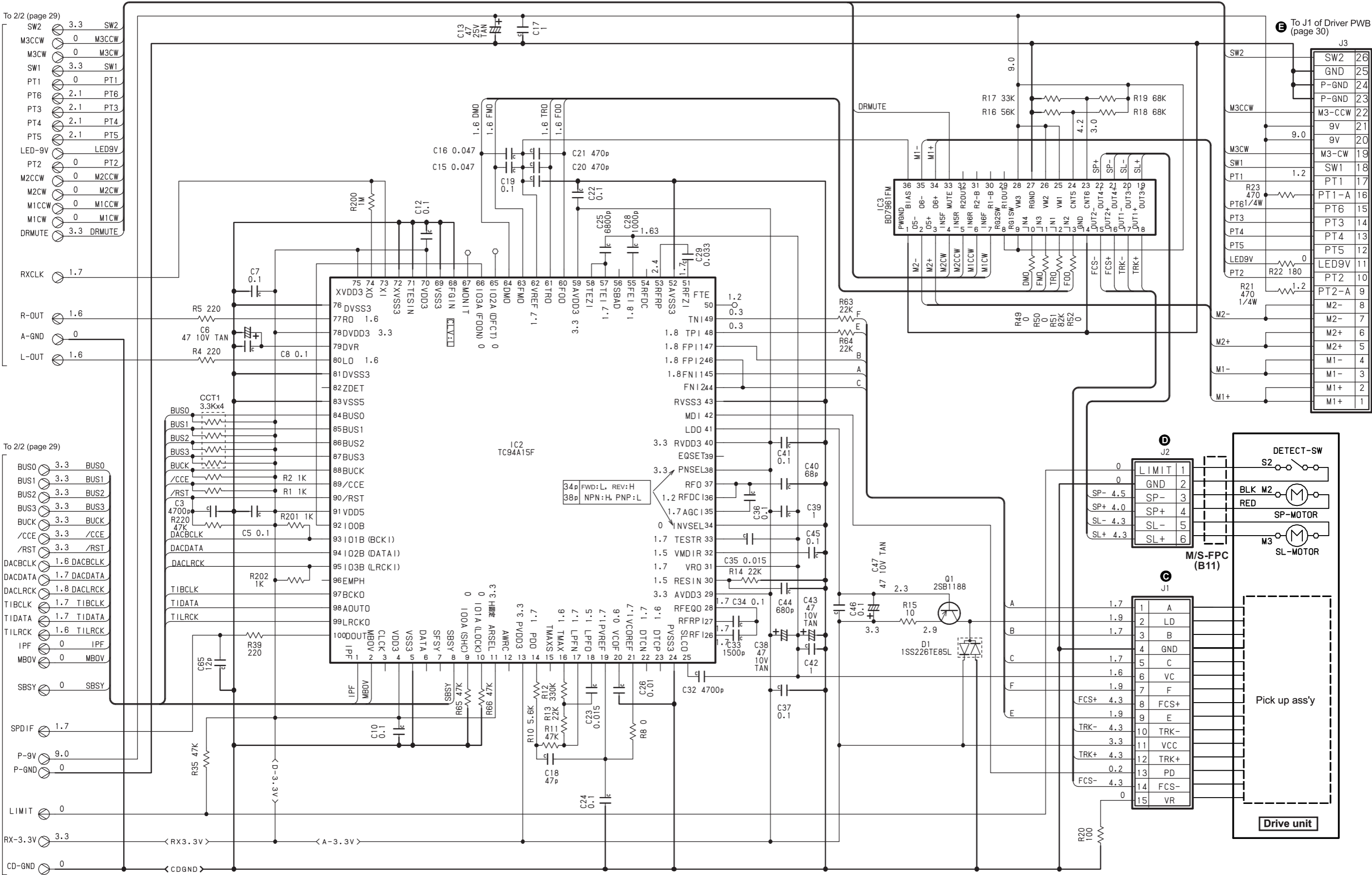
P1	
1	FL-RX
2	FL-TX
3	CNVSS
4	VDD
5	GND

To J205 of Main PWB-A (page 22)

J3	
20	ACC-5V
19	SPDIF
18	GND
17	VDD5V
16	L-OUT
15	S-GND
14	R-OUT
13	A-MUTE
12	B/U-DET
11	SYS-ACC
10	P-ON1
9	P-GND
8	P-GND
7	CD-9V
6	CD-9V
5	SHUT
4	REQ
3	I X6-RX
2	NC
1	I X6-TX

(20)  
(Pin No. of J205)

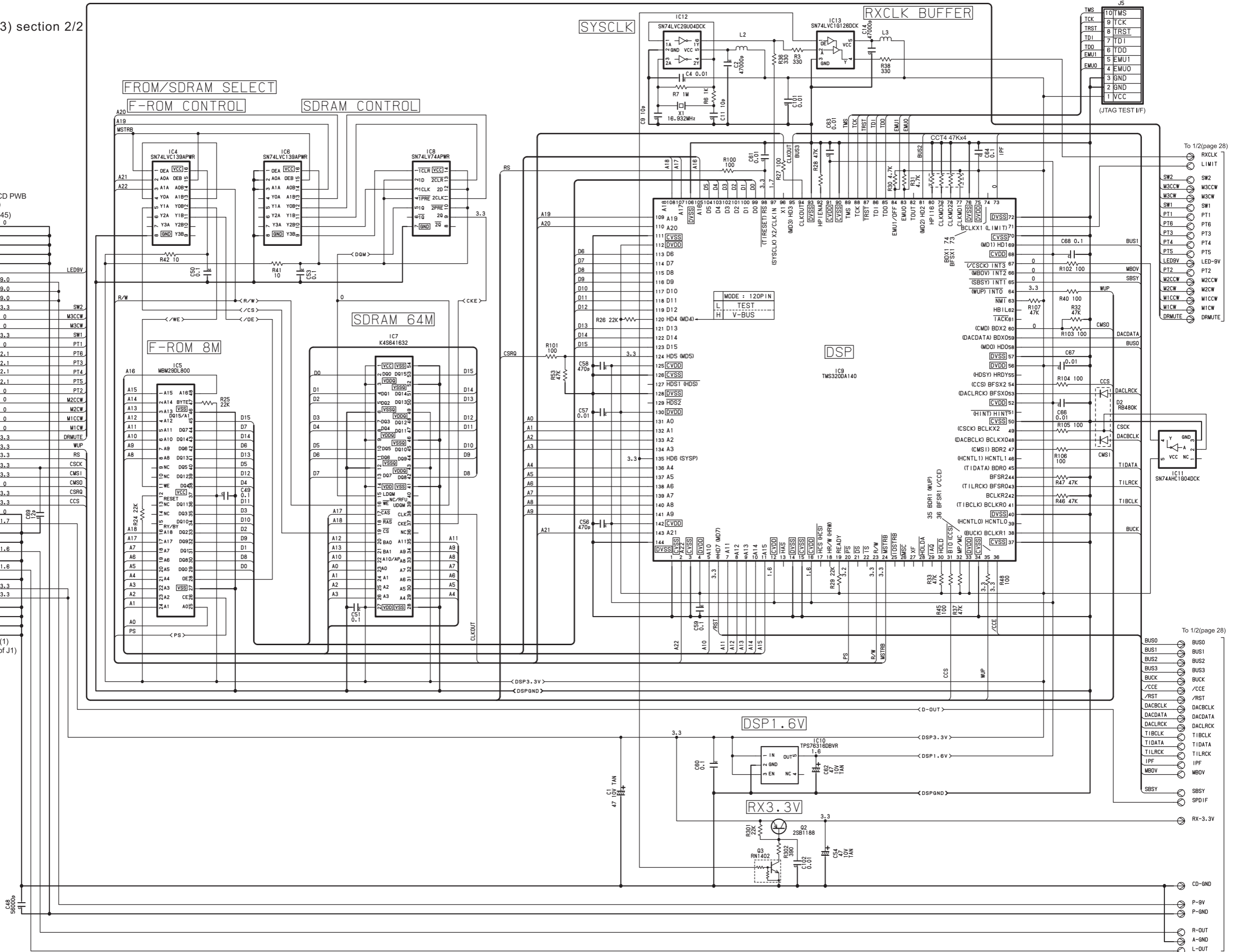
DSP PWB(B3) section 1/2  
MS-FPC(B11) section



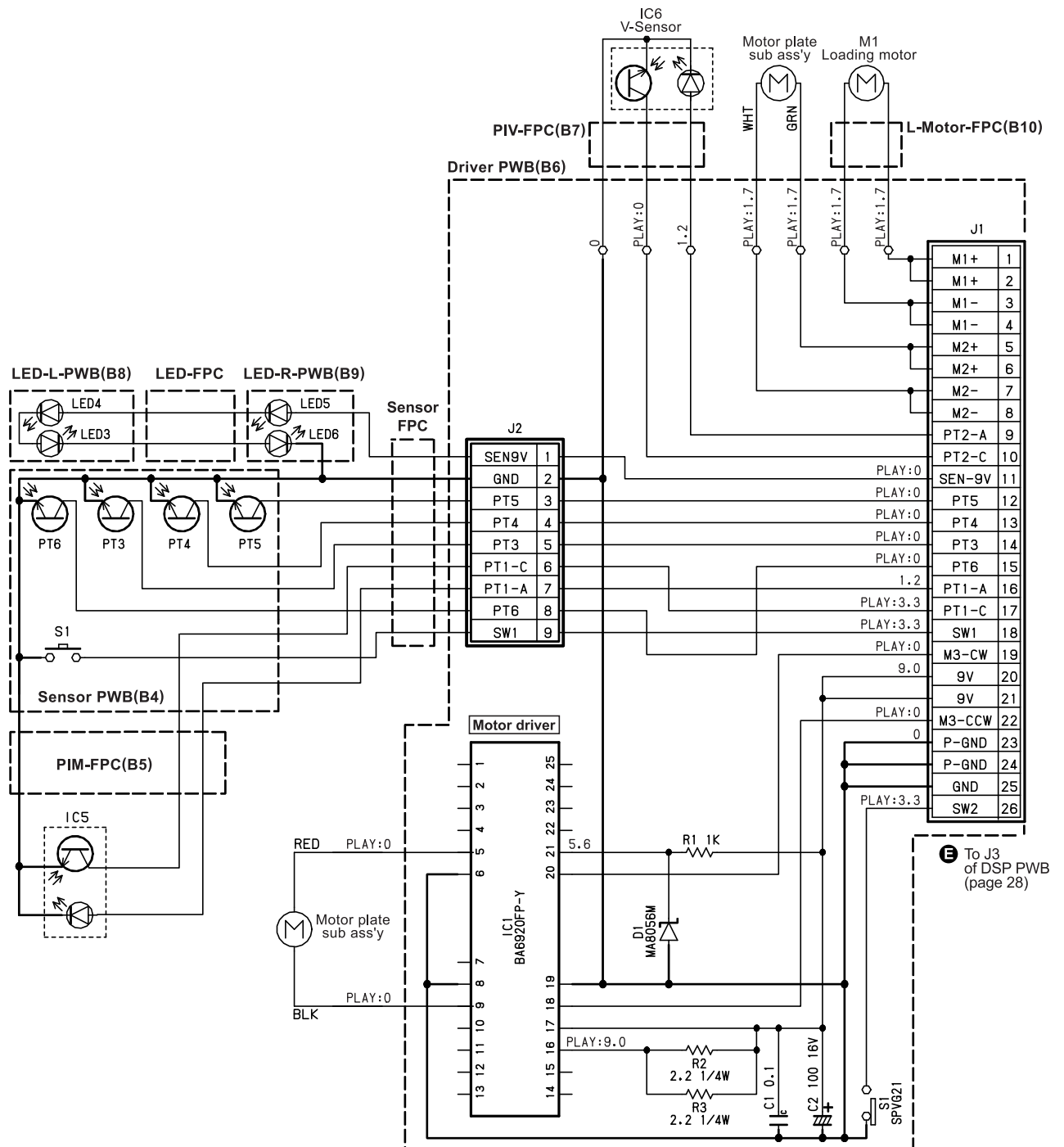
To J1 of CD PWB  
(page 27)

P-GND	1	(45)	0
P-GND	2		
P-GND	3		
P-GND	4		
P-GND	5		
LED9V	6		
ACC9V	7	9.0	
ACC9V	8	9.0	
ACC9V	9	9.0	
SW2	10	3.3	
M3-CCW	11	0	M3CCW
M3-CW	12	0	SW1
PT1-C	13	3.3	PT1
PT6	14	2.1	PT6
PT3	15	2.1	PT3
PT4	16	2.1	PT4
PT5	17	2.1	PT5
PT2-C	18	0	PT2
M2-CCW	19	0	M2CCW
M2-CW	20	0	M2CCW
M1-CCW	21	0	M1CCW
M1-CW	22	0	M1CCW
DRMUTE	23	3.3	DRMUTE
WUP	24	3.3	WUP
RESET	25	3.3	RS
CSCK	26	3.3	CSCK
CMSI	27	3.3	CMSI
CMSO	28	3.3	CMSO
CSRQ	29	3.3	CSRQ
CCS	30	3.3	CCS
GND	31	0	
D-OUT	32	1.7	
GND	33	0	
R-CH	34	1.6	
GND	35	0	
L-CH	36	1.6	
GND	37	0	
ACC3.3V	38	3.3	
ACC3.3V	39	3.3	
GND	40	0	
GND	41	0	
GND	42	0	
GND	43	0	
GND	44	0	
GND	45	0	

(1)  
(Pin No. of J1)

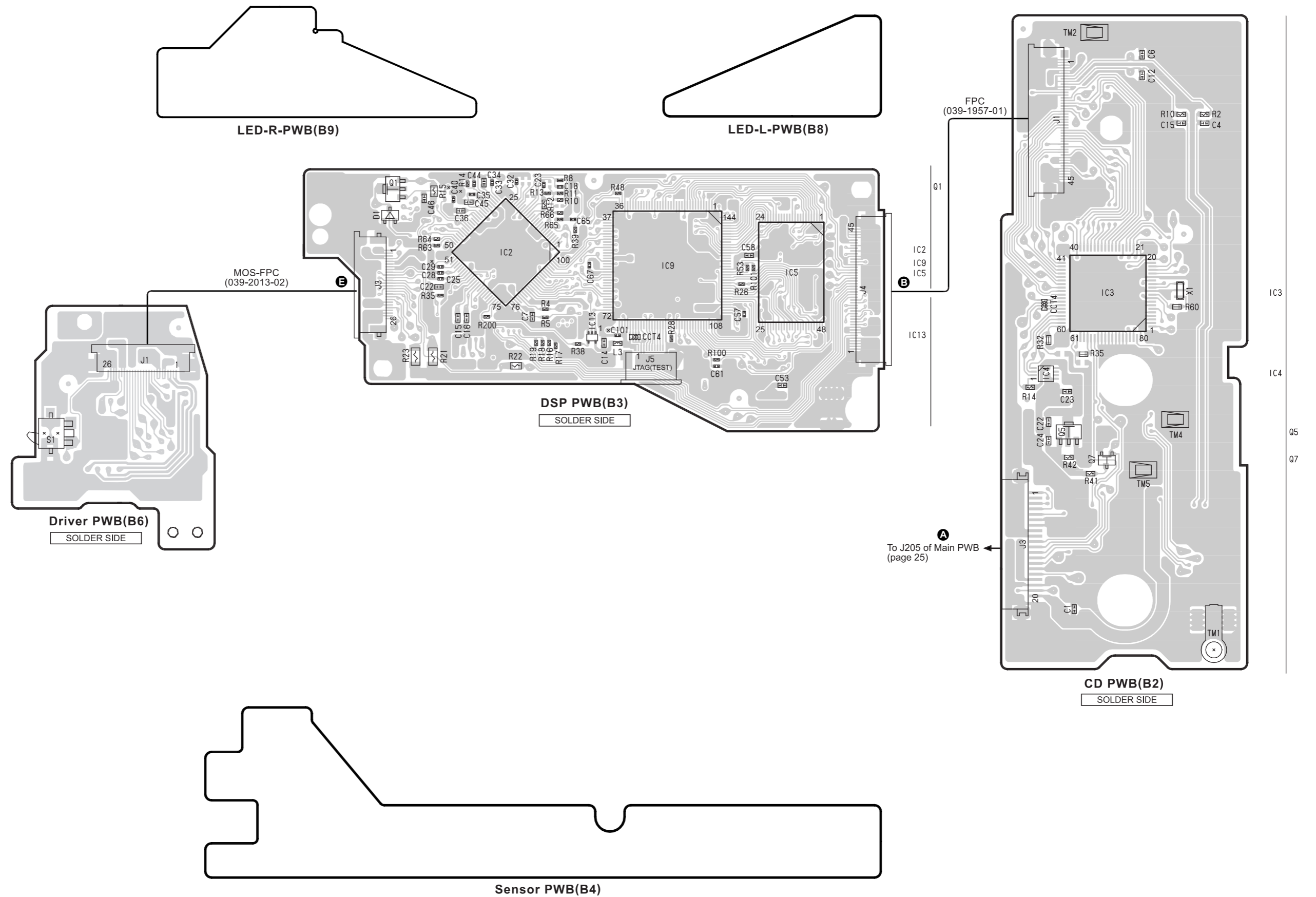


Sensor PWB(B4) section  
PIM-FPC(B5) section  
Driver PWB(B6) section  
PIV-FPC(B7) section  
LED-L-PWB(B8) section  
LED-R-PWB(B9) section  
L-Motoer-FPC(B10) section



# PRINTED WIRING BOAD

CD PWB(B2) section      LED-L-PWB(B8) section  
DSP PWB(B3) section    LED-R-PWB(B9) section  
Sensor PWB(B4) section  
Driver PWB(B6) section



CD PWB(B2) section      PIV-FPC(B7) section  
DSP PWB(B3) section    LED-L-PWB(B8) section  
Sensor PWB(B4) section LED-R-PWB(B9) section  
PIM-FPC(B5) section    L-Motor-FPC(B6) section  
Driver PWB(B6) section   M/S-FPC(B11) section

